LLNL Livermore Site Second Quarter 2008 Self-Monitoring Report

The following is the second quarter 2008 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. Due to over a 50% reduction in budget for the Livermore Site project in Fiscal Year 2008, the following facilities were shutdown: TFC East, VTFD-ETCS, TFD-HPD, VTFD-HPD, VTFD-HS, VTFE-ELM, VTFE-HS, TF5475-1, TF5475-2, TF5473-3, VTF5475, TF406, TF518 North, VTF518-PZ, and TF518-PZ. The following facilities failed during this quarter and were not repaired due to insufficient resources: TFC-SE, TFD-S, TFE-E, TFE-SE, TFE-HS, TFG-N, VTF406-HS and TF406-NW. Also, TFA West was shutdown in January after a year-long treatability test.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the second quarter of 2008 are presented in Tables 1 and 2, respectively. Table 3 presents an historical summary of VOC mass and volume removed.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). During the second quarter of 2008, all effluent sample analyses were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Appendix B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

A well location map showing newly installed monitoring wells and treatment facilities, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. There were no new monitoring wells installed during this reporting period. Due to the budget reduction, water levels were only collected one time during the quarter.

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Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, April through June 2008.

		Volume of ground water	Volume of vapor
Treatment Area ^a	Month	extracted (Kgal) ^b	extracted (Kft ³) ^b
TFA	April	10,096	-
	May	2,139	-
	June	1,574	-
TFB	April	1,839	-
	May	1,832	-
	June	1,900	-
TFC	April	2,856	-
	May	2,018	-
	June	2,402	-
TFD	April	5,033	0
	May	4,769	0
	June	4,543	0
TFE	April	2,053	0
	May	2,085	0
	June	1,741	0
TFG	April	590	-
	May	587	-
	June	498	-
TFH	April	9	2,228
	May	10	1,250
	June	0	1,730
TOTAL ^c		48,574	5,208

^a Totals include ground water and soil vapor extracted from the following facilities:

TFA area: TFA, TFA-E, TFA-W

TFB area: TFB

TFC area: TFC, TFC-E, TFC-SE

TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS

TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS

TFG area: TFG-1, TFG-N

TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475

TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

^b Totals are derived from individual extraction wells shown in Attachment B

^c Rounded number

Kft³ = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, April through June 2008.

Treatment Area ^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	0.6	-	0.6
TFB	0.5	-	0.5
TFC	1.0	-	1.0
TFD	7.8	0	7.8
TFE	1.4	0	1.4
TFG	0.1	-	0.1
TFH	0.002	18.3	18.3
TOTAL ^b	11.4	18.3	29.7

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through June 2008.

Treatment Area ^a	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft ³)	
TFA	1,560	-	
TFB	348	-	
TFC	347	-	
TFD	812	49,708	
TFE	291	124,223	
TFG	55	-	
TFH	129	162,038	
TOTAL ^b	3,542	335,969	

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through June 2008.

Treatment Area ^a	VOC mass removed	VOC mass removed	Total VOC mass
	from ground water (kg)	from soil vapor (kg)	removed (kg) ^b
TFA	194	-	194
TFB	71	-	71
TFC	86	-	86
TFD	756	84	840
TFE	199	141	340
TFG	9	-	9
TFH	29	1,121	1,150
TOTALb	1,344	1,346	2,690

^a Refer to Table 1 footnote for facilities in each treatment facility area.

Abbreviations for Tables 2, 3 and 4:

 Kft^3 = thousands of cubic feet.

Kg = Kilograms.

Mgal = millions of gallons.

VOC = Volatile organic compound.

^b Rounded number.

Attachment A

VOC, Chromium, Bioassay, Turbidity, and Chloride Analyses

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA	1,2-DCA	•	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TFA													
TFA-I001	03-APR-08	E601	< 0.5	1.1	1	< 0.5	1.3	<1	<0.5	6.5	<0.5	0.7	<0.5
TFA-I001	06-MAY-08	E601	< 0.5	1	1.1	< 0.5	1.7	<1	< 0.5	7.3	< 0.5	0.7	< 0.5
TFA-I001	10-JUN-08	E601	<0.5	1.2	0.59	<0.5	1.4	<1	<0.5	8.7	<0.5	0.93	<0.5
TFA-E001	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	06-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
TFA-E001	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E													
W-254	08-APR-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	0.74	<1	<0.5	55	<0.5	1.3	<0.5
STU06-I	07-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	0.66	<1	<0.5	49	<0.5	1.2	<0.5
STU06-I	03-JUN-08	E601	<0.5	<0.5	0.63	<0.5	1.1	<1	<0.5	60	<0.5	1.5	<0.5
STU06-E	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	07-MAY-08	E601	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<0.5	< 0.5	<0.5	< 0.5	<0.5
STU06-E	03-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W ^a													
W-404	15-APR-08	E601	< 0.5	< 0.5	1.1	< 0.5	1.4	<1	< 0.5	7.2	<0.5	< 0.5	<0.5
W-404	15-MAY-08	E601	< 0.5	< 0.5	1.5	< 0.5	2.3	<1	<0.5	7.8	< 0.5	< 0.5	<0.5
W-404	12-JUN-08	E601	<0.5	<0.5	1.7	<0.5	2.6	<1	<0.5	10	<0.5	<0.5	<0.5
TFA-W-E	15-APR-08	E624	<1	<1	1.1	<1	1.4	<1	<1	7.2	<1	<0.5	<1
TFB													
TFB-I002	03-APR-08	E601	0.52	1.6	< 0.5	< 0.5	1.5	<1	4.3	1.5	<0.5	12	<0.5
TFB-I002	06-MAY-08	E601	0.54	1.6	< 0.5	< 0.5	1.5	<1	4.2	1.6	< 0.5	13	<0.5
TFB-I002	02-JUN-08	E601	0.54	1.7	<0.5	<0.5	1.6	<1	4	1.4	<0.5	12	<0.5
TFB-E002	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	06-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<0.5	< 0.5	< 0.5	< 0.5	<0.5
TFB-E002	02-JUN-08	E601	<0.5	<0.5	< 0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	08-APR-08	E601	<0.5	1.3	< 0.5	< 0.5	0.99	<1	11	6.4	<0.5	16	<0.5
TFC-I003	07-MAY-08	E601	< 0.5	1.2	< 0.5	< 0.5	1	<1	12	6.8	<0.5	16	<0.5
TFC-I003	02-JUN-08	E601	<0.5	1.2	<0.5	<0.5	1	<1	12	6.4	<0.5	15	<0.5
TFC-E003	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Station Sampled Method CCI ₄ <-	<0.5 0.81 0.79
TFC (cont.) TFC-E003 07-MAY-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <th><0.5 <0.5 0.81 0.79 <0.5</th>	<0.5 <0.5 0.81 0.79 <0.5
TFC-E003 07-MAY-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 0.81 0.79 <0.5
TFC-E003 02-JUN-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 0.81 0.79 <0.5
TFC-E ^b	0.81 0.79 <0.5
TFC-SE ^c PTU1-I 08-APR-08 E601 <0.5 7.4 <0.5 <0.5 2.5 <1 12 <0.5 <0.5 18 PTU1-I 07-MAY-08 E601 <0.5 7.2 <0.5 <0.5 2.6 <1 11 0.51 <0.5 17 PTU1-E 08-APR-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5	0.81 0.79 <0.5
PTU1-I 08-APR-08 E601 <0.5 7.4 <0.5 <0.5 2.5 <1 12 <0.5 <0.5 18 PTU1-I 07-MAY-08 E601 <0.5	0.79 <0.5
PTU1-I 08-APR-08 E601 <0.5 7.4 <0.5 <0.5 2.5 <1 12 <0.5 <0.5 18 PTU1-I 07-MAY-08 E601 <0.5	0.79 <0.5
PTU1-E 08-APR-08 E601 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5	<0.5
	~0.0
TFD	
TFD-I004 03-APR-08 E601 2.2 2.1 <0.5 <0.5 <0.5 <1 <0.5 0.74 <0.5 45	33
TFD-I004 06-MAY-08 E601 2.2 2.1 <0.5 <0.5 0.59 <1 0.51 0.77 <0.5 47	28
TFD-I004 02-JUN-08 E601 2 2.1 <0.5 <0.5 0.7 <1 <0.5 0.89 <0.5 45	27
TFD-E004 03-APR-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5
TFD-E004 06-MAY-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	< 0.5
TFD-E004 02-JUN-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5
TFD-E	
PTU8-I 07-APR-08 E601 6.7 1.8 0.55 1.7 10 <1 0.78 12 < 0.5 110	1.4
PTU8-I 06-MAY-08 E601 6.5 1.8 0.52 1.5 11 <1 0.77 13 < 0.5 110	1.3
PTU8-I 03-JUN-08 E601 6.8 1.6 < 0.5 <0.5 2.1 <1 0.86 4.4 < 0.5 82	1.4
PTU8-E 07-APR-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5
PTU8-E 06-MAY-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	
PTU8-E 03-JUN-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5
TFD-HPD ^d	
1FD-NFD	
TFD-S	
PTU2-I 25-APR-08 E601 1.5 1.2 <0.5 <0.5 4.3 <1 1.1 4.5 <0.5 77	< 0.5
PTU2-I 14-MAY-08 E601 2.1 1.4 <0.5 <0.5 6.7 <1 1.6 4.7 <0.5 100	<0.5
PTU2-I 10-JUN-08 E601 2.6 1.3 <0.5 <0.5 6.9 <1 1.6 5.1 <0.5 110	<0.5
PTU2-E 25-APR-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5
PTU2-E 14-MAY-08 E601 <0.5 <0.5 <0.5 <0.5 <0.5 <1 <0.5 <0.5 <0.5 <0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample	Date	Analytic							_				_
Station	Sampled	Method	CCI ₄ <-	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-S (cont.)							0 11 7						
PTU2-E	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	07-APR-08	E601	1.2	6.3	1.5	4.7	29	<1	1.2	92	< 0.5	210	< 0.5
PTU11-I	07-MAY-08	E601	1.3	6.4	1.5	5	29	<1	1.3	96	< 0.5	200	< 0.5
PTU11-I	03-JUN-08	E601	1.4	5.7	1.6	5.6	37	<1	1.2	98	<0.5	230	<0.5
PTU11-E	07-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	07-MAY-08	E601	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
PTU11-E	03-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	11-APR-08	E601	2.7	2.9	0.86	3.2	14	<1	0.79	30	< 0.5	150	4.4
PTU12-I	07-MAY-08	E601	3	2.7	0.69	2.3	14	<1	0.93	27	<0.5	140	4.6
PTU12-I	12-JUN-08	E601	2.8	3.2	0.88	3.4	15	<1	1	35	<0.5	180	4.1
PTU12-E	11-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	07-MAY-08	E601	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	< 0.5	< 0.5	<0.5	< 0.5	<0.5
PTU12-E	12-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-W													
PTU6-I	11-APR-08	E601	<0.5	5.5	< 0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.5	61
PTU6-I	07-MAY-08	E601	<0.5	4.8	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6.8	74
PTU6-I	09-JUN-08	E601	0.55	4.2	<0.5	<0.5	<0.5	<1	0.58	<0.5	<0.5	7.4	100
PTU6-E	11-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E ^e													
PTU3-I	09-APR-08	E601	0.59	5.5	<0.5	<0.5	12	<1	9.2	19	<0.5	94	<0.5
PTU3-I	08-MAY-08	E601	0.54	4.7	<0.5	<0.5	12	<1	9.6	18	<0.5	83	<0.5
PTU3-E	09-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	08-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-HS													
GTU07-I	09-APR-08	E601	1.5	1.6	< 0.5	<0.5	8.2	2.4	9.1	17	<0.5	280	<0.5
GTU07-I	12-MAY-08	E601	1.5	1.7	<0.5	<0.5	9.1	2.9	8.4	15	<0.5	240	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	•	Freon 113	PCE -	1,1,1-TCA -	TCE -	Freon 11
TFE-HS (cont.)													
GTU07-I	09-JUN-08	E601	1.5	1.6	<0.5	<0.5	8.2	2.6	7.9	15	<0.5	240	<0.5
GTU07-E	09-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
0.007 2	00 00.1 00	2001	40.0	10.0	10.0	10.0	10.0	7.	10.0	40.0	10.0	40.0	10.0
TFE-NW													
PTU9-I	10-APR-08	E601	0.5	1.3	< 0.5	< 0.5	< 0.5	<1	0.89	< 0.5	< 0.5	12	< 0.5
PTU9-I	08-MAY-08	E601	< 0.5	1.4	< 0.5	< 0.5	< 0.5	<1	1.1	< 0.5	< 0.5	11	< 0.5
PTU9-I	09-JUN-08	E601	<0.5	1.2	< 0.5	<0.5	<0.5	<1	1	<0.5	<0.5	11	<0.5
PTU9-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
•													
TFE-SE ^f													
TFE-SW													
MTU03-I	10-APR-08	E601	3.2	2.4	<0.5	< 0.5	4.1	4.5	1.2	3	< 0.5	100	< 0.5
MTU03-I	15-MAY-08	E601	3.2	2.5	<0.5	< 0.5	4.6	4.7	1.4	3.5	< 0.5	99	< 0.5
MTU03-I	09-JUN-08	E601	3.5	2.4	< 0.5	0.5	4.2	4.3	1.5	3.8	<0.5	100	<0.5
MTU03-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	15-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-W													
MTU05-I	15-APR-08	E601	<0.5	1.2	<0.5	<0.5	3	1.8	21	6.4	<0.5	35	0.71
MTU05-I	15-MAY-08	E601	<0.5	1.1	<0.5	<0.5	3	1.8	20	6.4	<0.5	34	0.63
MTU05-I	09-JUN-08	E601	<0.5	1	<0.5	<0.5	2.8	1.6	18	6.4	<0.5	35	0.63
									-				
MTU05-E	15-APR-08	E601	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	15-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	10-APR-08	E601	3.3	11	< 0.5	< 0.5	1.4	<1	< 0.5	1.4	< 0.5	4.2	< 0.5
GTU01-I	07-MAY-08	E601	3.1	11	< 0.5	<0.5	1.4	<1	0.57	1.6	<0.5	4.2	<0.5
GTU01-I	05-JUN-08	E601	2.9	10	< 0.5	< 0.5	1.3	<1	0.5	1.5	< 0.5	4.2	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113	PCE -	1,1,1-TCA -	TCE -	Freon 11
 TFG-1 (cont.)													
GTU01-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	05-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N													
MTU02-I	10-APR-08	E601	<0.5	2	<0.5	< 0.5	1	<1	1.1	14	<0.5	4.6	<0.5
MTU02-I	07-MAY-08	E601	< 0.5	2.3	< 0.5	< 0.5	1.2	<1	1.3	14	< 0.5	4.7	<0.5
MTU02-I	05-JUN-08	E601	<0.5	2.6	<0.5	<0.5	1.1	<1	1.4	15	<0.5	4.6	<0.5
MTU02-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	07-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
MTU02-E	05-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406 ^g													
PTU5-I	12-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	< 0.5	< 0.5	4.6	<0.5
PTU5-I	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.2	<0.5
PTU5-E	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW ^h													
W-1801	28-APR-08	E601	<0.5	2.3	<0.5	<0.5	<0.5	<1	5.4	0.74	<0.5	23	<0.5
GTU03-E	28-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF518-N ⁱ													
TF5475-1 ^j													
TF5475-2 ^k													
 TF5475-3 ^l													

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Notes:

 CCl_4 = Carbon tetrachloride

 $CHCl_3 = Chloroform$

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

^a TFA-W was shut down in January after a year-long treatability test.

^b TFC-E did not operate during reporting period due to the budget reduction.

^c TFC-SE did not operate during the month of June due to the budget reduction.

^d TFD-HPD did not operate during reporting period due to the budget reduction.

e TFE-E did not operate during reporting period due to pending electronic issues and insufficient resources to repair.

f TFE-SE did not operate during reporting period due to a pump failure and insufficient resources to repair.

^g TF406 did not operate during the month of April due to a pump failure.

h TF406-NW did not operate for most of April and for the entire months of May and June due to pump failure and insufficient resources to repair.

¹ TF518-N did not operate during reporting period due to the budget reduction.

^j TF5475-1 did not operate during reporting period due to the budget reduction.

^k TF5475-2 did not operate during reporting period due to the budget reduction.

TF5475-3 did not operate during reporting period due to the budget reduction.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCI₄	CHCI ₃	1.1-DCA	1,2-DCA	1.1-DCE	1.2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 1
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TFA													
W-109	24-APR-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	0.51	2	< 0.5	< 0.5	< 0.5
W-262 ^a	29-JAN-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	0.56	< 0.5	< 0.5	< 0.5
W-408	24-APR-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	0.78	< 0.5	< 0.5	< 0.5
W-415	24-APR-08	E601	< 0.5	1.2	0.84	< 0.5	1.8	<1	< 0.5	14	<0.5	1.2	< 0.5
W-457	24-APR-08	E601	< 0.5	< 0.5	0.84	< 0.5	1.1	<1	< 0.5	8	< 0.5	< 0.5	< 0.5
W-518	24-APR-08	E601	< 0.5	< 0.5	7.3	< 0.5	4	<1	< 0.5	6.3	< 0.5	0.67	< 0.5
W-520 ^a	14-JAN-04	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	1.2	< 0.5	< 0.5	<0.5
W-522	24-APR-08	E601	< 0.5	< 0.5	2.3	< 0.5	1.5	<1	<0.5	3.5	<0.5	< 0.5	< 0.5
W-601 ^a	18-OCT-07	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	1.3	< 0.5	< 0.5	< 0.5
W-602 ^a	14-JAN-04	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	1.4	< 0.5	< 0.5	< 0.5
W-603 ^a	15-JAN-02	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	0.64	< 0.5	< 0.5	< 0.5
W-605	24-APR-08	E601	< 0.5	0.83	0.92	< 0.5	1.4	<1	< 0.5	22	< 0.5	1.1	< 0.5
W-609 ^a	14-JAN-04	E601	< 0.5	< 0.5	0.92	< 0.5	< 0.5	<1	< 0.5	0.65	< 0.5	< 0.5	< 0.5
W-614	24-APR-08	E601	<0.5	0.84	< 0.5	< 0.5	< 0.5	<1	< 0.5	8.2	< 0.5	< 0.5	< 0.5
W-712	24-APR-08	E601	3.2	3	1.2	< 0.5	3.7	<1	<0.5	1.6	< 0.5	3.6	<0.5
W-714	06-MAY-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	8.4	<0.5	< 0.5	<0.5
W-903 ^a	29-JAN-08	E601	<0.5	< 0.5	1.8	< 0.5	1.4	<1	< 0.5	7.5	< 0.5	0.52	< 0.5
W-904	24-APR-08	E601	<0.5	< 0.5	0.97	< 0.5	1.5	<1	< 0.5	9.1	< 0.5	0.53	< 0.5
W-1001	24-APR-08	E601	<0.5	<0.5	<0.5	< 0.5	<0.5	<1	< 0.5	< 0.5	<0.5	< 0.5	< 0.5
W-1004	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	4.2	<0.5	<0.5	<0.5
W-1009	24-APR-08	E601	1.4	5.9	0.94	<0.5	4	<1	0.71	13	<0.5	2.3	<0.5
TFA-E													
W-254	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	0.74	<1	<0.5	55	<0.5	1.3	<0.5
TFA-W													
W-404	12-JUN-08	E601	<0.5	<0.5	1.7	<0.5	2.6	<1	<0.5	10	<0.5	<0.5	<0.5
TFB													
W-357	03-APR-08	E601	2	2.9	<0.5	< 0.5	1.4	<1	6.2	1.5	<0.5	51	< 0.5
W-610	03-APR-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	1.4	<1	2.5	0.77	<0.5	2	< 0.5
W-620	03-APR-08	E601	<0.5	1.5	< 0.5	< 0.5	3.1	<1	6.2	2.4	<0.5	8.4	<0.5
W-621	03-APR-08	E601	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	1.4	0.5	<0.5	4.7	< 0.5
W-655	03-APR-08	E601	<0.5	0.62	< 0.5	< 0.5	< 0.5	<1	3.3	< 0.5	< 0.5	2.8	< 0.5
W-704	03-APR-08	E601	0.83	3.1	< 0.5	< 0.5	1.3	<1	7.8	4.1	<0.5	30	< 0.5
W-1423	03-APR-08	E601	0.79	4.1	< 0.5	<0.5	3.1	<1	5.3	2.4	< 0.5	11	< 0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction	Date	Analytic											
Well	Sampled	Method	CCI ₄ <-	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC													
W-701	08-APR-08	E601	< 0.5	2.2	<0.5	< 0.5	1.9	<1	33	0.5	< 0.5	9.2	<0.5
W-1015	08-APR-08	E601	< 0.5	0.64	<0.5	< 0.5	1.1	<1	2.3	1.3	< 0.5	5.5	<0.5
W-1102	08-APR-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	0.6	<1	9.3	< 0.5	< 0.5	2.7	< 0.5
W-1103	08-APR-08	E601	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	< 0.5	< 0.5	<0.5	1.8	< 0.5
W-1104	08-APR-08	E601	<0.5	0.91	<0.5	< 0.5	0.51	<1	4.7	13	< 0.5	27	<0.5
W-1116	08-APR-08	E601	<0.5	1.4	< 0.5	<0.5	0.54	<1	6.1	2.8	<0.5	4	< 0.5
TFC-E ^b													
W-368 ^a	08-JAN-08	E601	<0.5	11	<0.5	< 0.5	0.82	<1	18	2.3	<0.5	16	3.7
W-413 ^a	08-JAN-08	E601	<0.5	15	<0.5	<0.5	1.2	<1	11	<0.5	<0.5	8.1	3.7
TFC-SE													
W-1213	08-APR-08	E601	<0.5	4.4	<0.5	<0.5	2.7	<1	6.4	<0.5	<0.5	15	<0.5
W-2201	08-APR-08	E601	<0.5	9.5	<0.5	<0.5	2.4	<1	15	0.69	<0.5	19	1.2
TED													
TFD W-351	03-APR-08	E601	5.3	1.1	<0.5	0.99	3.9	<1	1.2	5.4	<0.5	99	1.3
W-653	05-JUN-08	E601	5.3 47	1.1	<0.5 <0.5	<0.5	3.9 1.5	<1 <1	6.2	5.4 1.3	<0.5 <0.5	99 1300	<0.5
W-906	03-APR-08	E601	0.81	1.6	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	3.4	1.9
W-907-2	03-APR-08	E601	0.95	2	<0.5	<0.5	0.8	<1	<0.5	0.89	<0.5	23	<0.5
W-1206 ^a	16-JAN-08	E601	1	1.4	<0.5	<0.5	0.61	<1	<0.5	0.5	<0.5	20	<0.5
W-1208	03-APR-08	E601	3	2.1	<0.5	<0.5	< 0.5	<1	0.64	0.72	<0.5	63	57
W-2011 ^a	04-APR-07	E601	3.1	2.2	<0.5	<0.5	<0.5	<1	<0.5	< 0.5	<0.5	77	<0.5
W-2101 ^a	04-APR-07	E601	17	5.2	<0.5	<0.5	0.68	<1	2.7	0.83	<0.5	450	<0.5
W-2102 ^a	04-APR-07	E601	28	9.7	<0.5	<0.5	0.74	<1	3.6	0.77	<0.5	840	1.8
TFD-E													
W-1253 ^{ac}	11-FEB-08	E601	6	6.2	<5	<5	16	<10	17	12	<5	2300	<5
W-1255 ^a	11-FEB-08	E601	4.4	2	<0.5	<0.5	<0.5	<1	<0.5	< 0.5	<0.5	260	<0.5
W-1301	07-APR-08	E601	3.5	2.5	3	9.9	74	1.1	<0.5	75	<0.5	360	<0.5
W-1301 W-1303	07-AFR-08	E601	3.3	3	1	4.1	8.6	1.1	<0.5	9.1	<0.5	170	20.5
W-1306	07-AFR-08	E601	6.3	1.9	<0.5	< 0.5	0.51	<1	0.77	1.9	<0.5	120	< 0.5
W-1307	07-AFR-08	E601	2.5	0.56	<0.5	<0.5	<0.5	<1	<0.5	0.54	<0.5	32	<0.5
W-1404	07-APR-08	E601	0.61	2.3	2	18	20	2.6	<0.5	82	<0.5	180	<0.5
W-1550	07-APR-08	E601	18	3.9	< 0.5	<0.5	3	<1	1.6	12	<0.5	160	<0.5
W-2006	07-APR-08	E601	1.8	3.3	4.8	15	170	2.3	<0.5	120	<0.5	1000	<0.5
W-2203	07-APR-08	E601	19	2.9	<0.5	<0.5	4.4	< 1	3.8	9.7	<0.5	140	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction	Date	Analytic											_
Well	Sampled	Method	CCI ₄	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113	PCE -	1,1,1-TCA -	TCE -	Freon 1 ⁻
TFD-HPD ^b													
W-1254 ^a	04-OCT-07	E601	0.88	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	14	<0.5
W-1551 ^a	04-OCT-07	E601	11	4.4	<0.5	<0.5	1.6	<1	3	3.1	<0.5	210	<0.5
W-1552 ^a	20-DEC-07	E601	<0.5	0.96	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	22	<0.5
W-1650 ^a	20-DEC-07	E601	7.1	1.8	<0.5	<0.5	<0.5	<1	2.6	<0.5	<0.5	260	<0.5
W-1651 ^a	20-DEC-07	E601	1.3	1.1	<0.5	<0.5	<0.5	<1	0.61	<0.5	<0.5	64	<0.5
W-1652 ^a	18-DEC-07	E601	3	2	<0.5	<0.5	<0.5	3.7	1	0.54	<0.5	420	<0.5
W-1652 ^a	18-DEC-07	E601	1.4	0.9	<0.5	<0.5	<0.5	3.7 <1	<0.5	< 0.5	<0.5	74	<0.5
W-1654 ^a	18-DEC-07	E601	< 0.5	0.55	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	25	<0.5
W-1655 ^a	18-DEC-07	E601	0.62	0.55	<0.5	<0.5	<0.5	<1	<0.5	1	<0.5	49	<0.5
W-1656 ^a	18-DEC-07	E601	2.5	0.94	<0.5	<0.5	<0.5	<1	0.88	<0.5	<0.5	100	<0.5
W-1657 ^a	18-DEC-07	E601	12	5.1	<0.5	<0.5	<0.5	<1	4.2	0.52	<0.5	1200	<0.5
VV-1657	10-DEC-07	E001	12	3.1	<0.5	<0.5	<0.5	< 1	4.2	0.52	<0.5	1200	<0.5
TFD-S													
W-1503	25-APR-08	E601	2.1	1.5	<0.5	< 0.5	3.5	<1	1	2.1	<0.5	80	< 0.5
W-1504	25-APR-08	E601	< 0.5	< 0.5	<0.5	< 0.5	14	<1	2.9	20	<0.5	100	< 0.5
W-1510	25-APR-08	E601	<0.5	<0.5	< 0.5	<0.5	3.8	<1	0.91	5.6	<0.5	38	<0.5
TFD-SE													
W-314 ^a	07-JAN-08	E601	1.6	8.9	0.72	1.7	11	<1	5	21	<0.5	170	< 0.5
W-1308	07-APR-08	E601	<0.5	1.1	1.7	4.8	21	<1	<0.5	110	<0.5	120	<0.5
W-1403	07-APR-08	E601	3	21	1.5	7.1	48	<1	4	92	<0.5	440	<0.5
W-1904 ^a	26-DEC-07	E601	<0.5	<0.5	0.54	0.67	5.8	<1	<0.5	39	<0.5	42	<0.5
W-2005	07-APR-08	E601	1.2	1.1	0.52	0.88	21	<1	<0.5	47	<0.5	82	<0.5
SIP-ETC-201 ^a	26-DEC-07	E601	<0.5	0.55	0.59	1.1	8.5	<1	<0.5	59	<0.5	60	<0.5
TFD-SS													
W-1523	11-APR-08	E601	5	4.5	0.67	2.6	17	<1	1.6	33	<0.5	190	<0.5
W-1601	11-APR-08	E601	4.3	3.7	1.9	7	29	1.3	1.3	110	<0.5	290	<0.5
W-1602	11-APR-08	E601	<0.5	1.1	<0.5	<0.5	0.7	<1	<0.5	1.1	<0.5	14	5.9
W-1603	11-APR-08	E601	1.6	2	1.2	4.8	16	1.2	<0.5	33	<0.5	170	8.6
TFD-W													
W-1215	11-APR-08	E601	<0.5	6.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.8	37
W-1215 W-1216	11-APR-08	E601	<0.5 <0.5	4.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1 <1	<0.5 0.5	<0.5 <0.5	<0.5 <0.5	5.6 5.7	37 79
W-1216 W-1902	17-APR-08	E601	<0.5 0.54	4.5 3.4	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1 <1	0.5 0.68	<0.5 <0.5	<0.5 <0.5	5. <i>1</i> 6.3	79 110
VV-19UZ	17-APR-08	EOUI	0.54	3.4	<0.5	<0.5	<0.5	<1	0.00	<0.5	<0.5	0.3	110
TFE-E													
W-566	09-APR-08	E601	0.71	6.7	< 0.5	< 0.5	3.5	<1	9.4	4.4	<0.5	58	< 0.5
W-1109	09-APR-08	E601	< 0.5	0.58	0.51	< 0.5	43	<1	7.9	71	< 0.5	200	< 0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA	1,2-DCA		1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 1
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TFE-E (cont.)													
W-1903 ^a ´	30-JUL-07	E601	< 0.5	<0.5	<0.5	< 0.5	23	<1	11	21	< 0.5	36	<0.5
W-1909 ^a	30-JUL-07	E601	< 0.5	<0.5	< 0.5	< 0.5	35	<1	10	48	< 0.5	58	<0.5
W-2305 ^a	30-JUL-07	E601	<0.5	1.1	1.5	<0.5	99	<1	21	170	<0.5	380	<0.5
TFE-HS													
W-2012	09-APR-08	E601	1.9	1.8	< 0.5	< 0.5	9	2.9	7.9	15	< 0.5	260	< 0.5
W-2105	09-APR-08	E601	<0.5	1.4	<0.5	<0.5	3.2	1.4	4.4	14	<0.5	440	<0.5
TFE-NW													
W-1211	10-APR-08	E601	0.56	1.4	< 0.5	< 0.5	<0.5	<1	0.98	< 0.5	< 0.5	11	<0.5
W-1409	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	1.2	<1	0.57	1.7	<0.5	30	<0.5
TFE-SE													
W-359 ^a	09-JAN-08	E601	4.1	0.69	<0.5	<0.5	10	<1	9.3	8.7	<0.5	100	0.91
TFE-SW													
W-1518	10-APR-08	E601	< 0.5	0.65	< 0.5	< 0.5	2	2.5	1.7	1.1	< 0.5	16	< 0.5
W-1520 ^a	09-JAN-08	E601	7.4	5.2	< 0.5	1.3	1.7	2.3	< 0.5	5.2	< 0.5	130	< 0.5
W-1522	10-APR-08	E601	7.4	4.8	0.57	1	6.8	7	0.81	5.8	<0.5	190	<0.5
TFE-W													
W-292	15-APR-08	E601	< 0.5	0.92	<0.5	< 0.5	1.3	3.5	2	1.4	< 0.5	25	< 0.5
W-305	15-APR-08	E601	<0.5	1.3	<0.5	<0.5	4.1	<1	30	9.7	<0.5	42	1.1
TFG-1													
W-1111	10-APR-08	E601	3.3	11	<0.5	<0.5	1.4	<1	<0.5	1.4	<0.5	4.2	<0.5
TFG-N													
W-1806	09-APR-08	E601	<0.5	2.4	< 0.5	< 0.5	<0.5	<1	<0.5	12	<0.5	2.4	< 0.5
W-1807	10-APR-08	E601	<0.5	2	<0.5	<0.5	1.5	<1	1.5	16	<0.5	5.4	<0.5
TF406													
W-1309	12-MAY-08	E601	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	<0.5	< 0.5	<0.5	6.5	<0.5
W-1310 ^a	29-JAN-08	E601	<0.5	0.86	<0.5	< 0.5	< 0.5	<1	<0.5	< 0.5	<0.5	7.2	< 0.5
GSW-445	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	2.5	<0.5
TF406-NW													
W-1801	28-APR-08	E601	< 0.5	2.3	<0.5	< 0.5	< 0.5	<1	5.4	0.74	< 0.5	23	< 0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction	Date	Analytic											
Well	Sampled	Method	CCI ₄	CHCI ₃	1,1-DCA	1,2-DCA			Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TF518-N ^b													_
W-1410 ^a	23-JAN-08	E601	2.8	1.5	<0.5	<0.5	<0.5	<1	<0.5	0.83	<0.5	18	<0.5
TF518-PZ ^d													
W-1615 ^a	07-FEB-08	E601	0.58	0.84	< 0.5	< 0.5	3	<1	<0.5	42	< 0.5	130	<0.5
W-518-1913 ^a	07-FEB-08	E601	< 0.5	< 0.5	<0.5	< 0.5	7.5	<1	< 0.5	18	< 0.5	34	<0.5
W-518-1914 ^a	07-FEB-08	E601	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	< 0.5	20	< 0.5	5.6	< 0.5
W-518-1915 ^{ac}	07-FEB-08	E601	<25	<25	<25	<25	180	<50	<25	1500	<25	12000	<25
SVB-518-201 ^a	07-FEB-08	E601	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<1	< 0.5	35	< 0.5	8.5	<0.5
SVB-518-204 ^a	07-FEB-08	E601	<0.5	0.63	<0.5	<0.5	1.4	<1	<0.5	43	<0.5	550	<0.5
TF5475-1 ^b													
W-1302-2 ^a	18-JUL-07	E601	1.8	19	0.73	3.4	20	<1	7.4	41	<0.5	260	<0.5
TF5475-2 ^b													
W-1108 ^a	16-JAN-08	E601	2	39	0.79	3.1	18	<1	5.9	45	<0.5	440	<0.5
W-1415 ^a	16-JAN-08	E601	0.71	3.9	<0.5	<0.5	8.4	<1	2.1	9.8	<0.5	76	<0.5
TF5475-3 ^b													
W-1604 ^a	21-AUG-07	E601	2.9	29	0.94	5.2	23	<1	17	45	<0.5	390	<0.5
W-1605 ^a	21-AUG-07	E601	1.3	13	<0.5	5.7	7.2	1.2	4	21	<0.5	210	<0.5
W-1608 ^a	21-AUG-07	E601	<0.5	9.5	0.71	3.2	2.1	3.2	1.8	7.1	<0.5	69	<0.5
W-1609 ^a	21-AUG-07	E601	<0.5	13	0.55	9.4	2.7	<1	0.94	7.9	<0.5	62	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Notes:

CCl₄ = Carbon tetrachloride

 $CHCl_3 = Chloroform$

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

^a Most recent VOC sample results available.

^b Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

^c Elevated detection limit due to dilution.

^d No ground water was extracted from TF518-PZ wells during reporting period.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA	1,2-DCA	1,1-DCE PPM(V/V)	1,2-DCE	Freon 113	PCE -	1,1,1-TCA	TCE -	Freon 11
 							FFIVI(V/V)						
VTFD-ETÇS ^a													
W-1904 ^b	26-JUN-07	TO15DI	< 0.02	< 0.02	< 0.02	< 0.02	0.12	< 0.02	< 0.02	2.2	< 0.02	0.64	< 0.02
W-ETC-2003 ^b	12-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	0.022	<0.008	<0.008	1.1	<0.008	0.26	<0.008
W-ETC-2004A ^b	12-JUL-07	TO15DI	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	<0.01	1.6	<0.01	0.5	<0.01
W-ETC-2004B ^b	12-JUL-07	TO15DI	< 0.02	< 0.02	< 0.02	< 0.02	0.18	< 0.02	< 0.02	3.3	< 0.02	1.7	<0.02
SIP-ETC-201 ^b	12-JUL-07	TO15DI	<0.01	<0.01	0.023	<0.01	0.054	<0.01	<0.01	1.6	<0.01	8.0	<0.01
VTFD-HPD ^c													
W-1552 ^b	13-FEB-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.011	< 0.005	0.2	< 0.005
W-1650 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1651 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1652 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1653 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1654 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1655 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1656 ^b	03-JUL-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
W-1657 ^b	03-JUL-07	TO15DI	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005
W-HPA-002B ^b	03-JUL-07	TO15DI	0.032	0.024	< 0.0057	< 0.0057	0.011	<0.0057	< 0.0057	0.1	< 0.0057	1	< 0.0057
VTFD-HS ^d													
W-653 ^b	15-FEB-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	< 0.005	0.093	< 0.005
W-2011 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	0.081	<0.005
W-2101 ^b	15-FEB-07	TO15DI	< 0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	< 0.005	0.061	< 0.005
W-2102 ^b	15-FEB-07	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.11	< 0.005
۷TFE-ELM ^e													
W-1903 ^b	16-AUG-07	TO15DI	<0.0084	<0.0084	<0.0084	<0.0084	1.4	<0.0084	0.36	1.4	<0.0084	1.5	<0.0084
W-1909 ^b	16-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	1.2	<0.008	0.36	0.04	<0.008	0.19	<0.008
W-2305 ^b	16-AUG-07	TO15DI	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.016	0.064	<0.005	0.069	<0.005
W-543-001 ^b	05-FEB-08	TO15DI	<0.005	< 0.005	< 0.005	< 0.005	0.0096	< 0.005	< 0.005	0.13	< 0.005	0.038	< 0.005
W-543-003 ^b W-543-1908 ^b	05-FEB-08 05-FEB-08	TO15DI	< 0.005	0.0069 < 0.005	< 0.005	< 0.005	0.052 < 0.005	< 0.005	0.012	0.11 0.015	< 0.005	0.29	<0.005
VV-543-1906	03-FEB-06	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	0.023	<0.005
VTFE-HS ^f													
W-ETS-2008A	30-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.031	< 0.005	0.057	< 0.005
W-ETS-2008B ^D	05-FEB-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.015	0.14	< 0.005	0.4	< 0.005
W-ETS-2009 ^b	30-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.062	< 0.005	0.092	< 0.005
W-ETS-2010A ^D	30-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.046	< 0.005	0.096	< 0.005
W-ETS-2010B ^D	30-JAN-08	TO15DI	< 0.005	<0.005	< 0.005	< 0.005	0.021	0.0054	0.058	0.37	< 0.005	1	<0.005
W-2105 ^b	30-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	0.014	< 0.005	0.01	0.022	< 0.005	0.13	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Ex	traction Well	Date Sampled	Analytic Method	CCI ₄	CHCI ₃	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113	PCE -	1,1,1-TCA -	TCE -	Freon 11
VT	F406-HS													
,	W-217	26-JUN-08	TO15DI	0.33	0.037	0.015	< 0.005	2	0.013	0.38	2.9	< 0.005	2.8	< 0.005
W-5	514-2007A	26-JUN-08	TO15DI	0.018	< 0.005	< 0.005	< 0.005	0.012	< 0.005	0.01	0.066	< 0.005	0.37	0.19
W-5	514-2007B	26-JUN-08	TO15DI	0.11	0.018	0.0096	<0.005	1	0.01	0.082	1.4	< 0.005	2.7	0.016
V	/TF511													
	W-274 ^b	04-OCT-06	TO15DI	0.14	0.02	< 0.0062	<0.0062	0.07	<0.0062	0.014	0.33	< 0.0062	6.1	0.38
V	N-1517 ^b	20-DEC-07	TO15DI	0.0066	< 0.005	< 0.005	< 0.005	0.0068	< 0.005	< 0.005	0.022	< 0.005	0.65	0.016
V	N-2204 ^b	01-AUG-07	TO15DI	0.089	0.069	< 0.02	0.091	0.039	< 0.02	< 0.02	0.26	< 0.02	3.4	<0.02
V	N-2206 ^b	01-AUG-07	TO15DI	0.024	0.057	<0.02	0.25	< 0.02	<0.02	<0.02	0.27	<0.02	2.9	<0.02
V	/-2207A ^b	26-FEB-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	0.0066	< 0.005	< 0.005	0.0064	< 0.005	1.9	< 0.005
	/-2207B	08-MAY-08	TO15DI	< 0.0072	0.021	< 0.0072	< 0.0072	0.011	< 0.0072	< 0.0072	0.016	< 0.0072	5.8	< 0.0072
V	/-2208A ^b	26-FEB-08	TO15DI	0.18	0.047	< 0.02	< 0.02	0.37	< 0.02	0.032	0.11	< 0.02	15	0.75
	/-2208B	08-MAY-08	TO15DI	0.49	0.16	0.14	< 0.084	3.4	0.12	0.2	1.5	< 0.084	72	0.13
V	N-2205 ^b	01-AUG-07	TO15DI	0.087	0.14	<0.031	0.035	0.056	<0.031	<0.031	0.19	<0.031	5.5	<0.031
VT	F518-PZ ^g													
V	N-1615 ^b	15-JAN-08	TO15DI	0.1	< 0.025	<0.025	<0.025	0.96	< 0.025	0.96	8.7	< 0.025	17	< 0.025
W-	518-1913 ^b	15-JAN-08	TO15DI	0.012	0.006	0.007	< 0.005	1.7	< 0.005	0.063	2	< 0.005	4.5	< 0.005
W-	518-1914 ^b	15-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.98	< 0.005	0.28	< 0.005
W-	518-1915 ^b	15-JAN-08	TO15DI	< 0.0066	<0.0066	< 0.0066	< 0.0066	0.29	< 0.0066	0.01	1.6	< 0.0066	5.9	<0.0066
SVE	3-518-201 ^b	15-JAN-08	TO15DI	< 0.005	< 0.005	< 0.005	< 0.005	0.016	< 0.005	< 0.005	3.9	< 0.005	0.34	< 0.005
SVE	3-518-204 ^b	15-JAN-08	TO15DI	< 0.02	< 0.02	< 0.02	< 0.02	0.051	<0.02	<0.02	2.4	<0.02	15	<0.02
V	TF5475 ^h													
	ETS-507 ^b	06-SEP-07	TO15DI	< 0.005	0.85	< 0.005	0.62	< 0.005	< 0.005	< 0.005	0.15	<0.005	0.67	<0.005
٧,	N-1605, ^b	06-SEP-07	TO15DI	0.0069	0.17	<0.005	0.02	0.11	<0.005	0.036	0.10	<0.005	0.85	<0.005
V	N-1608 ^b	06-SEP-07	TO15DI	< 0.005	< 0.005	<0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	0.0061	<0.005
V \/	N-2211 ^b	12-OCT-07	TO15DI	<0.005	0.49	0.012	0.15	0.14	<0.005	0.003	0.11	<0.005	1.2	<0.005
V	N-2212 ^b	12-OCT-07	TO15DI	0.056	0.75	0.024	0.039	1.1	<0.005	0.16	0.66	<0.005	3.8	<0.005
V	N-2302 ^b	05-OCT-07	TO15DI	0.032	0.47	0.022	< 0.017	0.73	<0.017	0.063	0.86	<0.017	11	<0.017
V	N-2303 ^b	05-OCT-07	TO15DI	0.009	0.88	0.038	0.083	0.4	< 0.005	0.0088	0.36	< 0.005	3.7	<0.005
SVI	-ETS-504 ^b	12-OCT-07	TO15DI	< 0.005	0.32	0.0052	0.14	0.073	< 0.005	< 0.005	0.064	< 0.005	0.34	< 0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Notes:

 CCl_4 = Carbon tetrachloride

 $CHCl_3 = Chloroform$

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

^a VTFD-ETCS did not operate during reporting period due to the budget reduction.

^b Most recent VOC vapor sample results available.

^c VTFD-HPD did not operate during reporting period due to the budget reduction.

 $^{^{\}rm d}\, {\rm VTFD\text{-}HS}$ did not operate during reporting period due to the budget reduction.

^e VTFE-ELM did not operate during reporting period due to the budget reduction.

^f VTFE-HS did not operate during reporting period due to the budget reduction.

^g VTF518-PZ did not operate during reporting period due to the budget reduction.

^h VTF5475 did not operate during reporting period due to the budget reduction.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment	Sample	Date	Chromium (total) ^a	Hexavalent Chromium
Facility	Station	Sampled	mg/L (ppm)	mg/L (ppm)
TFB	TFB-E002	03-APR-08	0.019	NA
	TFB-E002	06-MAY-08	0.019	NA
	TFB-E002	02-JUN-08	0.021	NA
TFC	TFC-E003	08-APR-08	0.026	NA
	TFC-E003	07-MAY-08	0.024	NA
	TFC-E003	02-JUN-08	0.025	NA
TFC-SE	PTU1-E	08-APR-08	0.034	NA
	PTU1-E	07-MAY-08	0.033	NA

^aA discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay ^a Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TFA	TFA-I001	03-APR-08	NA	NA	79
TFA	TFA-E001	03-APR-08	100 (100)	0.14	78

^aTest species was Fathead minnow and the test duration was 96 hours. Percent survival in the control group samples shown in parentheses.

Note: NA = not applicable

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

	Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Dry Season ^a (April 1 - November 30	0.006))	0.05	0.004	NA	0.005	1.3	NA	NA	0.015	NA	0.002	0.1	0.05	0.1	0.002	NA
Sample Date Station Sampled																

^aThe Explanation of Significant Differences for metals discharge identifies the Instantaneous Maximum concentrations for the dry season (April 1 - November 30).

NA = not applicable

Numbers in **BOLD** print indicate positive values above the detection limit.

Shaded values exceeded the discharge limit. See text for explanation.

Table A-7. Radiological analyses of effluent and receiving waters by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Gross Alpha <-	Gross Beta pCi/L	Tritium ->	
TFE-SE	W-359	01-APR-08	NA	NA	<100	
TFE-SW	MTU03-I	10-APR-08	NA	NA	1200	
TF406-NW	W-1801	28-APR-08	NA	NA	<100	

Numbers in **BOLD** print indicate positive values above the detection limit.

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.

TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.

TFA receiving water is routinely sampled at the TFG-ASW location.

TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.

TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).

TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.

TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.

TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.

TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.

TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.

TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.

TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.

TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.

TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.

CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).

CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.

CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).

CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.

GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.

GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.

GTU01 receiving water is routinely sampled at the TFG-ASW location.

GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.

GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.

GTU03 receiving water is routinely sampled at the TFC-R003 location.

GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.

GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.

GTU07 receiving water is routinely sampled at the TFC-R003 location.

GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.

GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.

GTU09 receiving water is routinely sampled at the TFC-R003 location.

MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.

MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.

MTU02 receiving water is routinely sampled at the TFC-R003 location.

MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.

MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.

MTU03 receiving water is routinely sampled at the TFC-R003 location.

MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.

MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.

MTU04 receiving water is routinely sampled at the TFC-R003 location.

MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.

MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

MTU05 receiving water is routinely sampled at the TFC-R003 location.

Explanation of Abbreviations

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.

MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.

MTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.

PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.

PTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.

PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.

PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.

PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.

PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.

PTU3 receiving water is routinely sampled at the TFC-R003 location.

PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.

PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.

PTU5 receiving water is routinely sampled at the TFC-R003 location.

PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.

PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.

PTU6 receiving water is routinely sampled at the TFC-R003 location.

PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.

PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.

PTU8 receiving water is routinely sampled at the TFC-R003 location.

PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.

PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.

PTU9 receiving water is routinely sampled at the TFC-R003 location.

PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.

PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.

PTU10 receiving water is routinely sampled at the TFC-R003 location.

PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.

PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.

PTU11 receiving water is routinely sampled at the TFC-R003 location.

PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.

PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.

PTU12 receiving water is routinely sampled at the TFC-R003 location.

STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.

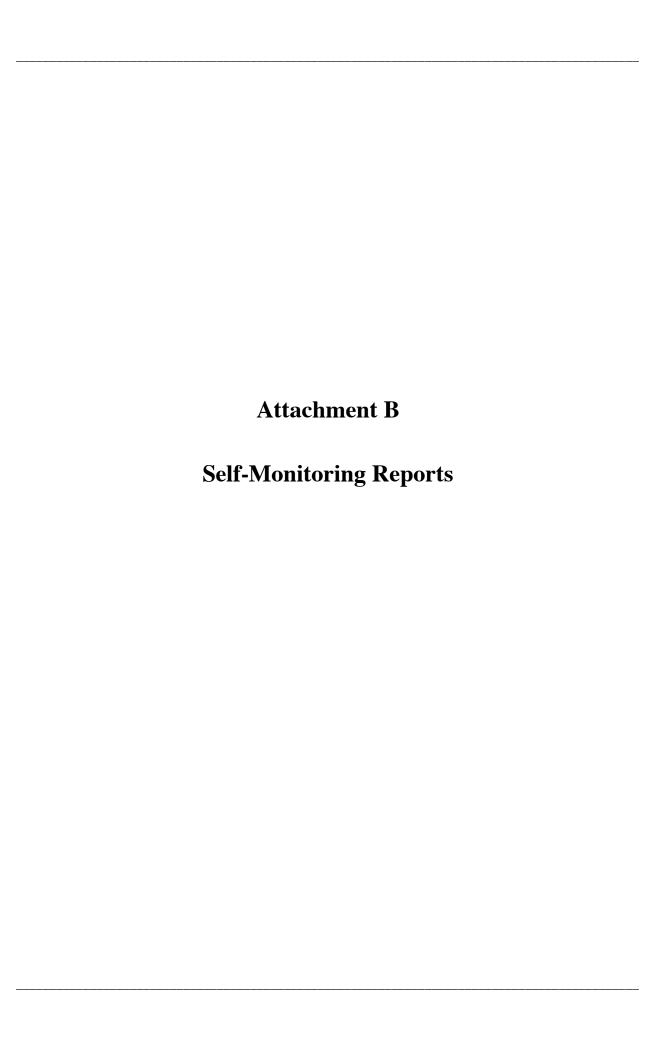
STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.

STU06 receiving water is routinely sampled at the TFG-ASW location.

STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.

STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.

STU09 receiving water is routinely sampled at the TFC-R003 location.



Self-Monitoring Report LLNL Treatment Facility A (TFA) AREA TFA

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 </u>

Total monthly time facility operated (hours): <u>720</u>

3. Monthly Compliance Data:

4. Wellfield Data:

	Monthly	Instantaneous
Source Source	Volume(gal)	Flow Rate(gpm)
W-408	1,181,600	27.4
W-109	1,346,400	31.2
W-457	272,500	6.3
W-522	1,165,400	27.5
W-602	0	0.0
W-614	511,600	11.8
W-712	313,200	7.3
W-714	143,200	6.2
W-904	1,034,600	23.8
W-415	1,536,300	35.3
W-518	407,100	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	423,400	9.7
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	516,600	12.0
W-1009	1,043,900	24.0
W-1001	159,300	3.7
Total:	10,055,100	<u>235.2</u>

5. Discharge Information:

Self-Monitoring Report (cont'd) LLNL Treatment Facility A (TFA) AREA TFA

Discharge LocationReceiving
Water StationVolumeWest Perimeter Drainage ChannelTFB-R0025,272,500Arroyo SecoTFG-ASW4,782,600

6. Comments:

W-714 pump failed on 4-17-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Vent Cantagun C. Date: 04-30-2008

Self-Monitoring Report LLNL Treatment Facility A (TFA) AREA TFA

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>151</u>

3. Monthly Compliance Data:

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-408	247,700	27.3
W-109	282,300	31.1
W-457	56,000	6.2
W-522	249,800	27.3
W-602	0	0.0
W-614	107,400	11.7
W-712	65,400	7.1
W-714	12,600	7.8
W-904	217,900	24.2
W-415	325,000	35.8
W-518	85,300	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	89,000	9.7
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	108,700	12.0
W-1009	219,700	24.0
W-1001	33,900	3.7
Total:	2,100,700	<u>236.9</u>

5. Discharge Information:

Self-Monitoring Report (cont'd) LLNL Treatment Facility A (TFA) AREA TFA

 Discharge Location
 Receiving Water Station
 Volume

 West Perimeter Drainage Channel
 TFB-R002
 1,096,800

 Arroyo Seco
 TFG-ASW
 1,003,900

6. Comments:

New pump installed in W-714 and well started on 5-5-08. System secured on 5-6-08 for control system upgrade.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 06-02-2008

Self-Monitoring Report LLNL Treatment Facility A (TFA) AREA TFA

- 1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>
- 2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 31
June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>203</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	06-10-2008
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
		(7)
W-408	0	0.0
W-109	394,700	33.4
W-457	78,500	9. 5
W-522	0	0.0
W-602	0	0.0
W-614	0	0.0
W-712	98,900	8.7
W-714	91,100	7.8
W-904	300,300	30.4
W-415	0	0.0
W-518	0	0.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	123,500	10.4
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	147,800	12.5
W-1009	299,100	25.0
W-1001	0	0.0
Total:	<u>1,533,900</u>	<u>137.7</u>

Self-Monitoring Report (cont'd) LLNL Treatment Facility A (TFA) AREA TFA

5. Discharge Information:

Discharge Location

Receiving
Water Station Volume

West Perimeter Drainage Channel TFB-R002 766,900

Arroyo Seco TFG-ASW 767,000

6. Comments:

Control system upgrades completed on 6-10-08. Operated during business hours only on 6-10-08 and 6-17-08 through 6-20-08. Twenty-four hour operation commenced on 6-23-08. W-408, W-415, and W-1001 not operating due to flow meter malfunctions. W-614 requires new pump. W-262, W-518, W-522, and W-903 require more work by EE group.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report LLNL Solar Treatment Unit 06 (STU06) AREA TFA-E

1. Reporting Per	riod: Business Mor	nth <u>April</u>	Year <u>2008</u>	
2. Dates (in bole	d and <u>underline</u>)	treated groun	d water was discl	narged
April	$\begin{array}{c cccc} \underline{01} & \underline{02} & \underline{03} & \underline{04} \\ \underline{16} & \underline{17} & \underline{18} & \underline{19} \end{array}$	$\frac{05}{20} \frac{06}{21} \frac{07}{22}$	$ \begin{array}{c cccc} 08 & 09 & 10 & 11 \\ \hline 23 & 24 & 25 & 26 \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Total month	ly time facility ope	erated (hours)	: <u>391</u>	
3. Monthly Com	pliance Data:			
Influent pH: Effluent pH:	mperature (°C):	formed (m/d/ <u>y</u>	y): <u>04-08-200</u> ; <u>7.</u> <u>7.</u> 16.	<u>0</u> 5
Source	Monthly <u>Volume(gal)</u>	Instantaneou Flow Rate(g		
W-254	40,590	1.7	7	
Total:	40,590	1.7	7	
5. Discharge Info	ormation:			
Discharge Location			Receiving Water Station	on <u>Volume</u>
Arroyo Seco			TFG-AS	<u>40,590</u>
6. Comments:				
7. I certify that the Operator Signatu	Lut	his report, to	. 6	owledge, is true and correct te: <u>04-30-2008</u>

Self-Monitoring Report LLNL Solar Treatment Unit 06 (STU06) AREA TFA-E

1. Reporting Per	iod: Business Mon	nth <u>May</u>	Year <u>200</u>	<u> </u>				
2. Dates (in bole	d and <u>underline</u>)	treated groun	nd water v	was discharg	ged			
May	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{05}{20} \frac{06}{21} \frac{07}{22}$	$\frac{08}{23} \frac{09}{24}$	$\frac{10}{25} \frac{11}{26} \frac{1}{2}$	$\frac{2}{7}$ $\frac{13}{28}$ $\frac{14}{29}$ $\frac{1}{3}$	1 <u>5</u> 30		
Total month	ly time facility ope	erated (hours): <u>371</u>					
3. Monthly Com	pliance Data:							
Influent pH: Effluent pH:	ance sampling permaners and another and another another and another and another anothe	formed (m/d/	/y): <u>05</u>	5-07-2008				
4. Wellfield Data	a:							
Source	Monthly <u>Volume(gal)</u>	Instantaneo Flow Rate(
W-254	38,202	1.	6					
Total:	38,202	<u>1.</u>	<u>6</u>	i				
5. Discharge Info	ormation:							
Discharge Location				ceiving ater Station	Volume	2		
Arroyo Seco			<u></u>	<u>TFG-ASW</u> <u>38,202</u>				
6. Comments:								
7. I certify that the Operator Signatu	ne information in the	his report, to			ledge, is true a	and correct		

Self-Monitoring Report LLNL Solar Treatment Unit 06 (STU06) AREA TFA-E

1. Reporting Per	riod: Business Mon	th <u>June</u> Yea	r <u>2008</u>		
2. Dates (in bol	d and underline)	treated ground wa	ater was discharge	d	
May June			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Total month	nly time facility ope	rated (hours):	388		
3. Monthly Com	npliance Data:				
Influent pH Effluent pH		Formed (m/d/y):	06-03-2008 7.0 7.5 18.1		
4. Wellfield Dat	ra:				
Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)	<u>)</u>		
W-254	40,027	1.7			
Total:	40,027	<u>1.7</u>			
5. Discharge Inf	Formation:		Receiving		
Discharge Location			Water Station	<u>Volume</u>	
Arroyo Seco			TFG-ASW	40,027	
6. Comments:					
7. I certify that t				lge, is true and corre	ect
Operator Signat	ure: Dloll	(Chwagus C.	Date: <u>06</u>	5-30-2008	

Self-Monitoring Report LLNL LWRP (LWRP) AREA TFA-W

1. Reporting Period	d: Business Mo	nth <u>Ap</u>	<u>ril</u> Yea	r <u>2008</u>			
2. Dates (in bold and <u>underline</u>) treated ground water was discharged							
L	1 02 03 04 6 17 18 19	05 06 20 21	07 08 22 23		11 12 26 27	13 14 28 29	
Total monthly	time facility op	erated (ho	ours): _	<u>0</u>			
3. Monthly Compl	iance Data:						
Date complian Influent pH: Effluent pH: Effluent Temp	nce sampling per perature (°C):	rformed (r	m/d/y):	04-15-2	2008 7.0 7.0 19.8		
4. Wellfield Data:							
Source	Monthly Volume(gal)	Instanta Flow Ra	neous ate(gpm)				
W-404	342		33.3				
Total:	342	**************************************	33.3				
5. Discharge Information:							
Discharge Location			Receiving Water Station		Volu	Volume	
LWRP @	5513Z Charlo	tte Way		TFA-	<u>W-E</u>		342
_	vere suspended / limited duration			-	ell W-404	is turne	ed on
7. I certify that the	information in	this report	, to the b	est of my	knowled	lge, is tru	ue and correct
Operator Signature: Date: 04-30-2008					8		
Å	9						

Self-Monitoring Report LLNL LWRP (LWRP) AREA TFA-W

1. Reporting Period	d: Business	Month	<u>May</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates (in bold a	and underlin	<u>ne</u>) trea	ted grou	nd wa	ater v	vas d	lisch	arge	d			
May 02		04 05 19 20	06 07 21 22		09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total monthly	time facility	operate	ed (hours	s): _	<u>0</u>							
3. Monthly Compli	ance Data:											
Date compliance sampling performed (m/d/y):												
4. Wellfield Data:												
Source	Monthly Volume(g		stantane ow Rate		<u> </u>							
W-404	4	22	32	.6								
Total:	4	22	<u>32</u>	<u>.6</u>								
5. Discharge Inform	nation:											
Discharge Lo	ocation					eivii ter S	ng <u>tatio</u>	<u>n</u>	`	Volu	<u>me</u>	
LWRP @ 5513Z Charlotte Way TFA-W-E 422												
6. Comments: Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.												
7. I certify that the information in this report, to the best of my knowledge, is true and correct												
Operator Signature												

Self-Monitoring Report LLNL LWRP (LWRP) AREA TFA-W

1. Reporting Per	riod:	Busi	ness	Mor	nth	<u>Ju</u>	<u>ne</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates (in bol	d an	d <u>un</u>	derli	ine)	trea	ted g	grour	nd wa	ater v	vas d	lisch	arge	d			
May June	31 01 16	02 17	03 18	04 19	05 20	06 21	07 22	08 23	09 24		11 26	12 27	13 28	14 29	15 30	
Total month	ly ti	me fa	acilit	у ор	erate	d (h	ours)):	<u>0</u>							
3. Monthly Com	plia	nce I	Data:													
Date compliance sampling performed (m/d/y): $\underline{06-12-2008}$ Influent pH: $\underline{7.5}$ Effluent pH: $\underline{7.5}$ Effluent Temperature (°C): $\underline{21.3}$																
4. Wellfield Dat	a:															
Source		Mon <u>Volu</u>	•	gal)			aneo Late(s	us gpm)	•							
W-404			•	381			32.	7								
Total:	•		<u></u>	381			32.	7								
5. Discharge Inf	orma	ation	•						_							
Discharge	Loc	ation	<u>1</u>							ceivii ter S	_	<u>n</u>	7	Volu	<u>me</u>	
LWRP	LWRP @ 5513Z Charlotte Way TFA-W-E 381															
 Comments: Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling. 																
7. I certify that t	he in	form	natio	n in t	his r	epor	t, to	the b	est o	of my	kno	wled	lge, i	is tru	e and	correct
Operator Signatu	ıre:	1/1	M	/		1			ng n		Dat	e: 0 7	7-03-	·2008	<u>3</u>	

Self-Monitoring Report LLNL Treatment Facility B (TFB) AREA TFB

1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>706</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):

Influent pH:

Effluent pH:

Effluent Temperature (°C):

04-03-2008

7.5

7.5

19.7

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-357	218,600	6.3
W-610	218,000	5.3
W-621	325,100	8.0
W-620	231,800	5.3
W-655	299,200	7.2
W-704	262,800	6.5
W-1423	283,700	6.9
Total:	1,839,200	45.5

5. Discharge Information:

<u>Discharge Location</u>

<u>Water Station</u>

<u>Water Station</u>

<u>Volume</u>

<u>West Perimeter Drainage Channel</u>

TFB-R002 1,839,200

6. Comments:

Facility secured on 4-14-08 for software upgrade and to replace W-704 transducer. W-704 transducer replaced, software upgrade completed, and facility restarted on 4-15-08. Ion exchange columns removed from service on 4-1-08(end of wet season).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 04-30-2008

Self-Monitoring Report LLNL Treatment Facility B (TFB) AREA TFB

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 </u>

Total monthly time facility operated (hours): <u>725</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-06-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-357	260,700	6.2
W-610	205,400	4.9
W-621	311,900	7.5
W-620	224,100	5.4
W-655	292,000	6.9
W-704	270,900	6.4
W-1423	266,900	6.5
Total:	1,831,900	43.8

5. Discharge Information:

, 		
Discharge Location	Receiving Water Station	Volume

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Treatment Facility B (TFB) AREA TFB

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May $\underbrace{\frac{31}{01}}_{\text{June}}$ $\underbrace{\frac{01}{01}}_{16} \underbrace{\frac{02}{17}}_{18} \underbrace{\frac{03}{19}}_{19} \underbrace{\frac{05}{20}}_{20} \underbrace{\frac{06}{21}}_{21} \underbrace{\frac{08}{20}}_{22} \underbrace{\frac{09}{24}}_{23} \underbrace{\frac{10}{21}}_{24} \underbrace{\frac{11}{25}}_{26} \underbrace{\frac{13}{27}}_{28} \underbrace{\frac{14}{29}}_{30} \underbrace{\frac{15}{20}}_{30}$

Total monthly time facility operated (hours): <u>754</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-357	283,900	6.1
W-610	217,000	4.5
W-621	319,200	6.7
W-620	230,500	5.0
W-655	295,300	6.5
W-704	284,600	6.2
W-1423	269,300	5.9
Total:	1,899,800	40.9

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	TFB-R002	1.899.800

6. Comments:

7. I certify that the in	formation in thi	s peport, to th	ne best of my	knowledge, is true and correct.
Operator Signature: _	bru	Guran	m.Ci	Date: <u>06-30-2008</u>

Land Observation Report date: TFB-R002 - West Perimeter Drainage Channel

Reporting Period: Business Month April 1ear 2006	<u>o</u>	
Date compliance sampling performed <u>04-03-2008</u>		
Weather Conditions:		
Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	10.5 0 4/ SSW	
Receiving Data:	•	
Sample Location pH Temperature (C) Receiving Water N/M N/M		
Land Observations, as "Yes" or "No", for reporting r	nonth:	
Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
Comments:		
I certify that the information in this report, to the best Operator Signature:	t of my knowledge,	
	Date compliance sampling performed 04-03-2008 Weather Conditions: Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph): Receiving Data: Sample Location pH Temperature (C) Receiving Water N/M N/M Land Observations, as "Yes" or "No", for reporting to Visual Observations Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments: I certify that the information in this report, to the best	Weather Conditions: Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph): 4/ SSW Receiving Data: Sample Location pH Temperature (C) Receiving Water N/M N/M Land Observations, as "Yes" or "No", for reporting month: Visual Observations Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Not Required Comments: I certify that the information in this report, to the best of my knowledge,

Land Observation Report date: TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month May Year 2008

2.	Date compliance sampling performed <u>05-06-2008</u>		
3.	Weather Conditions:		
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	13.2 0 5/ SSW	
4.	Receiving Data:		
	Sample Location pH Temperature (C) Receiving Water N/M N/M		
5.	Land Observations, as "Yes" or "No", for reporting i	month:	
	<u>Visual Observations</u>	<u>Effluent</u>	Receiving Water
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
6.	Comments:		
7.	I certify that the information in this report, to the best Operator Signature:	st of my knowledge, i Date: 05-3	

Land Observation Report date: TFB-R002 - West Perimeter Drainage Channel

1.	Reporting Period: Business Month <u>June</u> Year <u>2008</u>				
2.	Date compliance sampling performed <u>06-02-2008</u>				
3.	Weather Conditions:				
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	13.5 0 7/ SW			
4.	Receiving Data:				
	Sample Location pH Temperature (C) Receiving Water N/M N/M				
5.	Land Observations, as "Yes" or "No", for reporting 1	nonth:			
	Visual Observations	<u>Effluent</u>	Receiving Water		
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No Not Required Not Required	No No No No		
6.	Comments:				
7.	I certify that the information in this report, to the best Operator Signature:				

Self-Monitoring Report LLNL Treatment Facility C (TFC) AREA TFC

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

Total monthly time facility operated (hours): <u>657</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-08-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.5</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-701	531,826	13.5
W-1015	291,679	7.2
W-1116	77,521	2.0
W-1103	82,065	2.4
W-1102	121,205	3.2
W-1104	1,090,548	27.7
Total:	2,194,844	56.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	2,194,844	
Discharge Location	Water Station	Volume	

6. Comments:

Ion exchange columns removed from service on 4-1-08(end of wet season). Facility shut down on 4-5-08 due to watchdog alarm. Restarted on 4-7-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 04-30-2008

Self-Monitoring Report LLNL Treatment Facility C (TFC) AREA TFC

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21</u> 22 23 24 25 26 <u>27 28 29 30</u>

Total monthly time facility operated (hours): <u>548</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	18.6

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	447,441	13.6
W-1015	235,928	7.3
W-1116	64,233	2.0
W-1103	71,152	2.3
W-1102	90,298	2.9
W-1104	910,631	27.3
Total:	1,819,683	<u>55.4</u>

5. Discharge Information:

Arrovo Las Positas	TFC-R003	1,819,683	
Discharge Location	Receiving <u>Water Station</u> <u>Volu</u>		

6. Comments:

Facility was secured on 5-21-08 and restarted on 5-27-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 05-30-2008

Self-Monitoring Report LLNL Treatment Facility C (TFC) AREA TFC

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

Total monthly time facility operated (hours): <u>733</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.1</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-701	593,596	13.4
W-1015	309,815	7. 1
W-1116	85,018	1.9
W-1103	94,929	2.1
W-1102	103,830	3.2
W-1104	1,215,045	27.6
Total:	2,402,233	<u>55.3</u>

5. Discharge Information:

Arroyo Las Positas	TFC-R003	2,402,233	
Discharge Location	Water Station	Volume	

6. Comments:

7. I certify that the in	formation in this	peport, to	the best of m	ny knowledge, is true and c	orrect.
Operator Signature: _	Slott	Cavas	us Gi	_ Date: <u>06-30-2008</u>	

Land Observation Report date: TFC-R003 - Arroyo Las Positas

Reporting Period: Business Month April Year 2003	<u>8</u>	
Date compliance sampling performed <u>04-08-2008</u>		
Weather Conditions:		
Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	10.1 0 8/ SW	
Receiving Data:		
Sample Location pH Temperature (C) Receiving Water N/M N/M		
Land Observations, as "Yes" or "No", for reporting r	month:	
Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
Comments:		
I certify that the information in this report, to the best Operator Signature:		
	Date compliance sampling performed 04-08-2008 Weather Conditions: Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph): Receiving Data: Sample Location pH Temperature (C) Receiving Water N/M N/M Land Observations, as "Yes" or "No", for reporting to Visual Observations Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments: I certify that the information in this report, to the best	Date compliance sampling performed 04-08-2008 Weather Conditions: Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph): 8/SW Receiving Data: Sample Location pH Temperature (C) Receiving Water N/M N/M Land Observations, as "Yes" or "No", for reporting month: Visual Observations Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Not Required Comments: I certify that the information in this report, to the best of my knowledge,

Land Observation Report date: TFC-R003 - Arroyo Las Positas

1.	Reporting Period: Business Month May Year 2008	-	
2.	Date compliance sampling performed <u>05-07-2008</u>		
3.	Weather Conditions:		
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	13.1 0 6/ SW	
4.	Receiving Data:		
	Sample Location pH Temperature (C) Receiving Water N/M N/M		
5.	Land Observations, as "Yes" or "No", for reporting r	nonth:	
	<u>Visual Observations</u>	Effluent	Receiving Water
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
6.	Odor Discoloration and Turbidity	<u>No</u> Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
 7. 	Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments: I certify that the information in this report, to the bes	Not Required Not Required	<u>No</u> <u>No</u> <u>No</u>
	Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments:	Not Required Not Required	No No No strue and correct.
	Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments: I certify that the information in this report, to the bes	Not Required Not Required Not Required t of my knowledge, i	No No No strue and correct.

Land Observation Report date: TFC-R003 - Arroyo Las Positas

1.	Reporting Period: Business Month <u>June</u> Year <u>2008</u>	<u>L</u>	
2.	Date compliance sampling performed <u>06-02-2008</u>		
3.	Weather Conditions:		
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	13.5 0 7/SW	
4.	Receiving Data:		
	Sample Location pH Temperature (C) Receiving Water N/M N/M		
5.	Land Observations, as "Yes" or "No", for reporting r	month:	
	<u>Visual Observations</u>	Effluent	Receiving Water
	Visual Observations Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	Effluent No No Not Required Not Required	Receiving Water No No No No No
6.	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity	No No Not Required	<u>No</u> <u>No</u>
 7. 	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments: I certify that the information in this report, to the bes	No Not Required Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>No</u>
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use Comments:	No Not Required Not Required Not Required	No No No No is true and correct.

Self-Monitoring Report LLNL Mini Treatment Unit 1 (MTU1) AREA TFC-E

1. Reporting Per	riod:	Busi	iness	Moı	nth	_Ar	<u>oril</u>	Yea	ır <u>20</u>	<u>08</u>						
2. Dates (in bo)	ld an	d <u>un</u>	derli	ine)	trea	ted g	groun	ıd wa	iter v	vas d	isch	arge	d			
April	01 16	02 17	03 18	04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ıly ti	me fa	acilit	у ор	erate	d (ho	ours)	: _	<u>0</u>							
3. Monthly Con	nplia	nce I	Data:													
Date compl Influent pH Effluent pH Effluent Te	: [:				form	ned((1	m/d/	y): <u>N</u>	lot N	<u> 1eas</u>	<u>ired</u>					
4. Wellfield Dat	ta:															
Source		Mon <u>Volu</u>	•	gal)			aneo (ate(g	us gpm)	ı							
W-368 W-413				0			0.0 0.0									
Total:				0			0.0	<u>0</u>								
5. Discharge Inf										ceivii iter S	_	<u>n</u>	Ţ	Volu	<u>me</u>	
Arroyo	Las	Posi	tas						_ <u>T</u>	FC-	R003	<u>3</u>			0	
6. Comments: The treatre the regular			•								ding	redi	uctio	n. D	OE and	
7. I certify that t	he in	ıform	natio	n in t	his r	epor	L to	the b	est o	f my	kno	wlec	lge, i	is tru	e and cor	rect
Operator Signat	ure: _	_}	bi	1_		, Ch	NA	gu	. (Dat	e: <u>05</u>	<u>5-01-</u>	2008	3	

Self-Monitoring Report LLNL Mini Treatment Unit 1 (MTU1) AREA TFC-E

1. Reporting Period: Business Month <u>May</u> Year <u>2008</u>

2. Dates (in bold a	nd <u>u</u>	nderl	ine)	trea	ted g	roun	d wa	ıter v	vas d	isch	argeo	ł		
May 02			04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30
Total monthly	time :	facilit	ty op	erate	d (ho	ours)	: _	<u>0</u>						
3. Monthly Compli	ance	Data:												
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):														
4. Wellfield Data:														
Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)														
W-368 W-413			0			0.0 0.0								
Total:			0			0.0	<u>)</u>							
5. Discharge Inform	nation	1:						ъ						
Discharge Lo	catio	<u>n</u>							eivii ter S	ng tatio	<u>n</u>	Z	/oluı	<u>ne</u>
Arroyo La	s Pos	<u>itas</u>						<u>T</u>	FC-]	R003	<u>3</u>		-	0
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.														
7. I certify that the information in this report, to the best of my knowledge, is true and correct.														
Operator Signature: Date: 05-30-2008														

Self-Monitoring Report LLNL Mini Treatment Unit 1 (MTU1) AREA TFC-E

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in bol	d an	d <u>un</u>	derli	<u>ne</u>)	trea	ted g	roun	ıd wa	iter v	vas d	lisch	arge	d			
May June	31 01 16	02 17	03 18	04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ly ti	me fa	acilit	у ор	erate	d (h	ours)	:	<u>0</u>							
3. Monthly Com	plia	nce I	Data:													
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):																
4. Wellfield Data	a:															
Source		Mon <u>Volu</u>	-	gal)			aneo late(g	us gpm)								
W-368 W-413				0			0.0 0.0									
Total:	,			<u>0</u>			0.0	<u>)</u>								
5. Discharge Info	orma	ition	•						Rec	ceivi	ng					
Discharge	Loc	atior	<u>1</u>							ter S	_	<u>n</u>		Volu	<u>me</u>	
Arroyo	Las	<u>Posi</u>	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>			0	
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.																
7. I certify that the	he in	førn	. <		his #	1					kno	wlec	lge, i	s tru	e and	correct.
Operator Signatu	ıre: _		Slow	<u> </u>	l	-au	as	Con			Dat	e: 07	7-01-	2008	3	

Self-Monitoring Report LLNL Portable Treatment Unit 1 (PTU1) AREA TFC-SE

1. Reporting Per	riod: Business Mon	th <u>April</u>	Year <u>2008</u>		
2. Dates (in bol	d and <u>underline</u>)	treated groun	d water was discharge	ed	
April			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Total month	aly time facility ope	rated (hours)	<u>730</u>		
3. Monthly Com	npliance Data:				
Influent pH: Effluent pH	: mperature (°C):	formed (m/d/y	7): <u>04-08-2008</u> <u>7.0</u> <u>7.5</u> <u>19.4</u>		
Source	Monthly Volume(gal)	Instantaneou Flow Rate(g			
W-1213 W-2201	281,492 379,695	6.6 8.8			
Total:	661,187	15.4			
5. Discharge Info	formation:		D		
Discharge	Location		Receiving Water Station	<u>Volume</u>	
Arroyo	Las Positas		TFC-R003	661,187	
6. Comments: Ion exchai	nge columns remov	ed from servi	ice on 4-1-08(end of v	vet season).	
7. I certify that the operator Signatu	he information in the	nis report, to t	- Cr.	dge, is true and correct 4-30-2008	

Self-Monitoring Report LLNL Portable Treatment Unit 1 (PTU1) AREA TFC-SE

1. Reporting Per	riod: Bus	iness]	Mor	ıth	_Ma	ay	Year	200	<u>8</u>						
2. Dates (in bol	2. Dates (in bold and <u>underline</u>) treated ground water was discharged														
May	01 02 17		04 19	<u>05</u> 20	06 21		<u>08</u> 23	<u>09</u> 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ly time f	acility	ope	erate	d (ho	ours)	:	<u>219</u>							
3. Monthly Com	pliance	Data:													
Date compliance sampling performed (m/d/y): Influent pH: Effluent pH: T.5 Effluent Temperature (°C): 18.9															
4. Wellfield Dat	a:														
Source		nthly ume(g	<u>al)</u>			aneo ate(g	us gpm)								
W-1213 W-2201		84,3 113,8				6.5 8.8									
Total:		198,2	<u>31</u>		A. S. A.	<u>15.3</u>	3								
5. Discharge Inf	ormation	:						D							
Discharge	Location	<u>1</u>							eivii ter S	ng <u>tatio</u>	<u>n</u>	Ş	Volu	<u>me</u>	
Arroyo	Las Pos	<u>itas</u>						<u>T</u>	FC-	R003	<u>3</u>		198,2	<u> 231</u>	
6. Comments: System we	ent down	on 5-	9-08	3 due	e to c	contr	ol po	wer :	fault	.•					
7. I certify that t								est o	f my	kno	wled	lge, i	s tru	e and	correct.
Operator Signatu	ure: \sum_{i}	H	,	Clu	wa	J	<u></u>			Dat	e: <u>05</u>	5-30-	<u> 2008</u>	<u>3</u>	

Self-Monitoring Report LLNL Portable Treatment Unit 1 (PTU1) AREA TFC-SE

1. Reporting Per	iod:	Busi	ness	Moı	nth	<u>Ju</u>	<u>ne</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates (in bol e	2. Dates (in bold and <u>underline</u>) treated ground water was discharged															
May June	31 01 16	02 17	03 18	04 19		06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ly tiı	me fa	acilit	у ор	erate	d (ho	ours)	: _	<u>0</u>							
3. Monthly Com	. Monthly Compliance Data:															
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C): Wellfield Data:																
	Monthly Instantaneous															
Source		<u>Volu</u>	•	gal)	Flo	ow R	ate(g	gpm)								
W-1213 W-2201				0 0			0.0 0.0									
Total:	•			0			0.0	<u>)</u>								
5. Discharge Info	orma	ıtion	:													
Discharge	Loc	ation	<u>1</u>							eivii ter S	_	<u>n</u>		Volu	<u>me</u>	
Arroyo	Las	Posi	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>			_0	
The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.																
. I certify that the information in this report, to the best of my knowledge, is true and correct.																
perator Signature: Date: 07-01-2008																

Self-Monitoring Report LLNL Treatment Facility D (TFD) AREA TFD

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>660</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-03-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.6</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-653	6,200	0.0
W-351	4,100	0.2
W-907-2	428,400	11.3
W-906	60,500	7.7
W-1206	308,900	0.0
W-1208	890,900	23.0
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	1,699,000	42.2

5. Discharge Information:

Arroyo Las Positas	_TFC-R003	1,699,000
Discharge Location	Receiving Water Station	Volume

6. Comments:

Facility secured on 4-25-08 for planned power outage. Restarted on 4-28-08. W-906 operated intermittently due to a flow meter problem. W-351 went down on 4-10-08 due to pump failure. W-1206 went down on 4-9-08 due to transducer failure. Transducer replaced on 4-9-08 and W-1206 restarted. W-906 went down on 4-28-08 due to flow meter failure.

Self-Monitoring Report (cont'd) LLNL Treatment Facility D (TFD) AREA TFD

7. I certify that the ir	nformation in th	is report, to the best of	my knowledge, is true and	l correct
Operator Signature:		Cawague Co		

Self-Monitoring Report LLNL Treatment Facility D (TFD) AREA TFD

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

Total monthly time facility operated (hours): 664

3. Monthly Compliance Data:

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-653	6,100	0.0
W-351	0	0.0
W-907-2	425,200	10.8
W-906	0	0.0
W-1206	492,800	12.6
W-1208	895,200	22.6
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	1,819,300	46.0

5. Discharge Information:

 Discharge Location
 Receiving Water Station
 Volume

 Arroyo Las Positas
 TFC-R003
 1,819,300

6. Comments:

Facility secured on 5-2-08 for planned power outage. Restarted on 5-5-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Treatment Facility D (TFD) AREA TFD

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

Total monthly time facility operated (hours): <u>754</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.9</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-653	6,500	0.0
	, , , , , , , , , , , , , , , , , , ,	
W-351	0	0.0
W-907-2	489,500	11.0
W-906	0	0.0
W-1206	571,800	12.2
W-1208	1,022,600	22.8
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	2,090,400	46.0

5. Discharge Information:

<u>Discharge Location</u>

Polymer Station

Arroyo Las Positas

Receiving
Water Station

Volume

TFC-R003

2,090,400

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 06-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 8 (PTU8) AREA TFD-E

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>729</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1255	0	0.0
W-1253	0	0.0
W-1307	256,200	6.2
W-1303	36,100	1.0
W-1306	12,900	0.3
W-1404	2,800	0.0
W-1550	107,300	2.6
W-1301	56,000	1.2
W-2006	1,400	0.0
W-2203	32,900	0.6
Total:	505,600	<u>11.9</u>

5. Discharge Information:

Arroyo Las Positas	TFC-R003	505,600
Discharge Location	Water Station	<u>Volume</u>
	Receiving	

6. Comments:

System went down on 4-13-08 due to Snap I/O fault. Restarted on 4-14-08. System went down on 4-27-08 due to Snap I/O fault. Restarted on 4-28-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: Slow Changen G.

Date: 05-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 8 (PTU8) AREA TFD-E

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

Total monthly time facility operated (hours): <u>728</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-06-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	20.5

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1255	0	0.0
W-1253	0	0.0
W-1307	243,700	6.2
W-1303	32,800	0.9
W-1306	10,000	0.3
W-1404	2,200	0.1
W-1550	101,500	2.6
W-1301	33,000	1.2
W-2006	1,100	0.0
W-2203	40,700	1.1
Total:	465,000	12.4

5. Discharge Information:

Arrovo Las Positas	TFC-R003	465,000
Discharge Location	Water Station	Volume
	Receiving	

6. Comments:

System went down on 5-16-08 due to Snap I/O fault. Restarted on 5-19-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 8 (PTU8) AREA TFD-E

- 1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>
- 2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May $\underbrace{\frac{31}{01}}_{\text{June}}$ Unne $\underbrace{\frac{01}{01}}_{16} \underbrace{\frac{02}{18}}_{18} \underbrace{\frac{03}{19}}_{19} \underbrace{\frac{06}{20}}_{21} \underbrace{\frac{07}{22}}_{22} \underbrace{\frac{08}{24}}_{23} \underbrace{\frac{09}{24}}_{24} \underbrace{\frac{11}{25}}_{26} \underbrace{\frac{13}{27}}_{28} \underbrace{\frac{14}{29}}_{29} \underbrace{\frac{15}{30}}_{30}$

Total monthly time facility operated (hours): <u>739</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-03-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1255	0	0.0
W-1253	0	0.0
W-1307	244,600	6.2
W-1303	32,100	0.8
W-1306	9,500	0.3
W-1404	0	0.0
W-1550	100,700	2.6
W-1301	15,900	0.0
W-2006	1,500	0.0
W-2203	36,900	0.9
Total:	441,200	10.8

5. Discharge Information:

Arroyo Las Positas	TFC-R003	441,200
Discharge Location	Water Station	Volume

Receiving

6. Comments:

Facility down intermittently prior to 6-20-08 due to Snap I/O Fault. Facility down on 6-20-08 due to Snap I/O Fault. Restarted on 6-23-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd) LLNL Portable Treatment Unit 8 (PTU8) AREA TFD-E

Operator Signature: ______ Date: 06-30-200

Self-Monitoring Report LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	0.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	0
Discharge Location	Water Station	Volume

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd) LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

Operator Signature: Sout Cavaçus C

Date: 05-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	0.0

5. Discharge Information:

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd) LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1254	0	0.0
W-1653	Ö	0.0
W-1657	Ö	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1552	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	TFC-R003	_0

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

Self-Monitoring Report (cont'd) LLNL Portable Treatment Unit 10 (PTU10) AREA TFD-HPD

7. I certify that the inf	format ion in thi	s raport, to the l	best of my	knowledge, is tru	e and correct.
Operator Signature: _	Stru	Cavagu	. G:	Date: 07-01-2008	
1 6				MANAGEMENT CONTROL OF THE PROPERTY OF THE PROP	•

Self-Monitoring Report LLNL Portable Treatment Unit 2 (PTU2) AREA TFD-S

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 </u>

Total monthly time facility operated (hours): 381

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-25-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.4</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	388,256	17.1
W-1510	44,142	2.6
W-1504	54,128	2.3
Total:	486,526	22.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	486,526
Discharge Location	Water Station	Volume
	Receiving	

6. Comments:

System secure from 4/10/08 to 4/24/08 for repairs to wells: W-1503, W-1510.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 2 (PTU2) AREA TFD-S

- 1. Reporting Period: Business Month May Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>157</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-14-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>23.1</u>

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)				
W-1503 W-1510	159,680 29,495	17.0 3.1				
W-1504	23,219	2.1				
Total:	212,394	22.2				

5. Discharge Information:

Arrovo Las Positas	TFC-R003	212,394		
Discharge Location	Water Station	Volume		
	Receiving			

6. Comments:

System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 5/14/08 to collect monthly samples and readings.

7. I certify that the informati	on in this report, to the best of r	ny knowledge, is true and correct.
Operator Signature	/ //ll	ny knowledge, is true and correct. Date: 06-04-2008

Self-Monitoring Report LLNL Portable Treatment Unit 2 (PTU2) AREA TFD-S

1. Reporting Period: Business Month June Year 2008 2. Dates (in **bold** and underline) treated ground water was discharged 31 May June 01 02 03 04 05 06 07 08 09 **10** 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Total monthly time facility operated (hours): 1 3. Monthly Compliance Data: Date compliance sampling performed (m/d/y): 06-10-2008 Influent pH: 7.5 Effluent pH: 7.5 Effluent Temperature (°C): 23.6 4. Wellfield Data: Monthly Instantaneous Source Volume(gal) Flow Rate(gpm) W-1503 **17.0** 1,128 W-1510 792 3.0 W-1504 160 2.4 Total: 2,080 <u>22.4</u> 5. Discharge Information: Receiving Discharge Location Volu<u>me</u> Water Station Arroyo Las Positas TFC-R003 2,080 6. Comments: System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 6/10/08 to collect monthly samples and readings. 7. I certify that the information in this report, to the best of my knowledge, is true and correct. Operator Signature; _ Date: **07-03-2008**

Self-Monitoring Report LLNL Portable Treatment Unit 11 (PTU11) AREA TFD-SE

1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 695

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>17.2</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	0	0.0
W-1403	183,404	6.4
W-1308	131,423	3.1
W-1904	0	0.0
W-2005	37,698	0.7
SIP-ETC-201	0	0.0
Total:	352,525	10.2

5. Discharge Information:

	Receiving	
Discharge Location	Water Station	<u>Volume</u>
Arroyo Las Positas	TFC-R003	352,525

6. Comments:

Facility shut down on 4-20-08 due to low flow rate. Restarted on 4-21-08. Facility shut down on 4-22-08 due to low flow rate. Restarted on 4-22-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 04-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 11 (PTU11) AREA TFD-SE

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): <u>724</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.3</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	0	0.0
W-1403	151,998	6.5
W-1308	142,061	3.3
W-1904	0	0.0
W-2005	54,201	0.7
SIP-ETC-201	0	0.0
Total:	348,260	<u>10.5</u>

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	TFC-R003	348,260

6. Comments:

7. I certify that the inform	nation in this report, to the be	est of my knowledge, is true and correct.
Operator Signature:	Convague C	Date: 05-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 11 (PTU11) AREA TFD-SE

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	<u>31</u>														
June	01	<u>02</u>	<u>03</u>	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): <u>741</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-03-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.1</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	0	0.0
W-1403	114,545	6.8
W-1308	143,826	3.3
W-1904	0	0.0
W-2005	71,390	1.7
SIP-ETC-20	0	0.0
Total:	329,761	11.8

5. Discharge Information:

Arroyo Las Positas	TFC-R003	329,761	
Discharge Location	Water Station	Volume	

6. Comments:

A data review conducted in early July indicates that recent flow totals for well W-1403 are suspect. The well will be shut in until issues with the flow totals are corrected.

7. I certify that the int	formation in t	his report, to	the best of my	knowledge, is true and	correct
Operator Signature: _	Stru	Cavas	anci.	Date: <u>07-02-2008</u>	

Self-Monitoring Report LLNL Portable Treatment Unit 12 (PTU12) AREA TFD-SS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 732

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-11-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u> 19.9</u>

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-1523	377,403	8.8
W-1603	506,311	11.6
W-1602	184,057	4.2
W-1601	45,391	1.0
Total:	1,113,162	25.6

5. Discharge Information:

Discharge Location	Receiving <u>Water Station</u>	Volume
Arroyo Las Positas	TFC-R003	1,113,162

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 05-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 12 (PTU12) AREA TFD-SS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

Total monthly time facility operated (hours): 727

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>19.4</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	374,997	8.7
W-1523 W-1603	476,199	0.7 11.1
W-1602	180,299	4.2
W-1601	46,577	1.0
Total:	<u>1,078,072</u>	<u>25.0</u>

5. Discharge Information:

	Receiving	
Discharge Location	Water Station	<u>Volume</u>
Arroyo Las Positas	TFC-R003	1,078,072

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 06-04-2008

Self-Monitoring Report LLNL Portable Treatment Unit 12 (PTU12) AREA TFD-SS

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May $\underbrace{\frac{31}{01}}_{\text{June}}$ June $\underbrace{\frac{01}{01}}_{16} \underbrace{\frac{02}{17}}_{18} \underbrace{\frac{03}{19}}_{19} \underbrace{\frac{05}{20}}_{20} \underbrace{\frac{06}{27}}_{21} \underbrace{\frac{08}{20}}_{22} \underbrace{\frac{09}{21}}_{24} \underbrace{\frac{10}{25}}_{25} \underbrace{\frac{11}{26}}_{26} \underbrace{\frac{13}{27}}_{28} \underbrace{\frac{14}{29}}_{29} \underbrace{\frac{15}{30}}_{30}$

Total monthly time facility operated (hours): <u>745</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-12-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>22.1</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	390,867	8.8
W-1603	472,221	10.6
W-1602	35,250	0.0
W-1601	48,305	1.1
Total:	946,643	20.5

5. Discharge Information:

<u>Discharge Location</u>	Water Station	· ordine	
F	Receiving Water Station	Volume	

6. Comments:

W-1602 secure pending flow interlock adjustment.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _______ Date: <u>07-03-2008</u>

Self-Monitoring Report LLNL Portable Treatment Unit 6 (PTU6) AREA TFD-W

1.	Reporting	Period:	Business	Month	<u>April</u>	Year <u>200</u>	<u>)8</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 </u>

Total monthly time facility operated (hours): <u>730</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-11-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.8</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	400,278	9.1
W-1215	343,233	7.8
W-1902	132,684	0.0
Total:	876,195	<u>16.9</u>

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	TFC-R003	876,195

6. Comments:

W-1902 restarted on 4/17/08 after manifold repairs completed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 6 (PTU6) AREA TFD-W

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

Total monthly time facility operated (hours): 662

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.4</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source Source	Volume(gal)	Flow Rate(gpm)
W-1216	165,927	8.4
W-1215	182,410	8.1
W-1902	498,055	6.7
Total:	<u>846,392</u>	<u>23.2</u>

5. Discharge Information:

Arroyo Las Positas	TFC-R003	846,392
Discharge Location	Water Station	Volume

6. Comments:

System shut down on 4/30/08 to 5/1/08 and 5/4/08 to 5/6/08 due to high sump alarm. Well flows were reduced/adjusted to accommodate lower discharge pump output. W-1216 secured on 5/23/08 to repair influent manifold (pending).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 06-04-2008

Self-Monitoring Report LLNL Portable Treatment Unit 6 (PTU6) AREA TFD-W

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May June $\frac{31}{16}$ $\frac{02}{17}$ $\frac{03}{18}$ $\frac{04}{19}$ $\frac{05}{20}$ $\frac{06}{21}$ $\frac{07}{22}$ $\frac{08}{23}$ $\frac{09}{24}$ $\frac{10}{25}$ $\frac{11}{26}$ $\frac{12}{27}$ $\frac{13}{28}$ $\frac{14}{29}$ $\frac{15}{30}$

Total monthly time facility operated (hours): <u>606</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.5</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	59,123	0.0
W-1215	157,835	5.3
W-1902	515,462	15.5
Total:	732,420	20.8

5. Discharge Information:

Discharge Location	Water Station	Volume
Arrovo Las Positas	TFC-R003	732,420

6. Comments:

System was down from 6/7/08 to 6/9/08 and 6/13/08 to 6/17/08 due to flow meter fault alarm. On 6/20/08 W-1216 restarted after influent manifold repairs completed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 07-03-2008

Self-Monitoring Report LLNL Vapor Extraction System 11 (VES11) AREA VTFD-ETCS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Hours	
<u>Source</u>	Volume(cu. ft) Flow Rate(scfm)	<u>P(in. Hg)</u>	T(°F) c	of Op.	
W-1904	0	0.0	0	0	0	
W-ETC-2004	B 0	0.0	0	0	0	
W-ETC-2004	A 0	0.0	0	0	0	
W-ETC-2003	0	0.0	0	0	0	
SIP-ETC-201	0	0.0	0	,0	0	
Total:	<u>0</u>	0.0		-		

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

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· •	I COLUIT	, criac cri	o minorym	president significant	is is port.	, to the	OCST OF III	i y milo wicago,	, is a uc and v	JOII CC L.

Operator Signature: Date: 05-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 11 (VES11) AREA VTFD-ETCS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Hours
Source	Volume(cu.	ft) Flow Rate(scfn	n) P(in. Hg)	T(°F) o	of Op.
W-1904	0	0.0	0	0	0
W-ETC-200	04B	0.0	0	0	0
W-ETC-200	04A 0	0.0	0	0	0
W-ETC-200	0	0.0	0	0	0
SIP-ETC-20	01 0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

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Operator Signature: Date: 06-04-2008

Self-Monitoring Report LLNL Vapor Extraction System 11 (VES11) AREA VTFD-ETCS

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 31 June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous			Hours
Source	Volume(cu. ft	Flow Rate(scfm)	P(in. Hg)	T(°F)	of Op.
W-1904	0	0.0	0	0	0
W-ETC-2004	B 0	0.0	0	0	0
W-ETC-2004	A 0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	. 0	0.0	0	0	0
Total:	<u>0</u>	0.0			***************************************

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 07-03-2008

Self-Monitoring Report LLNL Vapor Extraction System 07 (VES07) AREA VTFD-HPD

- 1. Reporting Period: Business Month April Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly In	nstantaneous		F	Iours
Source	Volume(cu. ft) F	low Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	of Op.
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002	A 0	0.0	0	0	0
W-HPA-002I	0	0.0	0	0	0
Total:	0	0.0	-	,	

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the in	formation in this	s peport, to	the best of my	knowledge, is to	rue and correct.
Operator Signature: _	Stru	(Choan	uses	Date: 05-01-20	08

Self-Monitoring Report LLNL Vapor Extraction System 07 (VES07) AREA VTFD-HPD

- 1. Reporting Period: Business Month May Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Iours
Source	Volume(cu. ft	Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> <u>c</u>	of Op.
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002	A 0	0.0	0	0	0
W-HPA-002	B 0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Vapor Extraction System 07 (VES07) AREA VTFD-HPD

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 31 June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

Source	Monthly	Instantaneous) Flow Rate(scfm)	P(in. Hg)		Hours of Op
Source	v Orume(cu. 1t	1 10w Rate(SCIIII)	<u>r (m. 11g)</u>	1(1.)	<u>ог Ор.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002	A 0	0.0	0	0	0
W-HPA-0021	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 07-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 13 (VES13) AREA VTFD-HS

- 1. Reporting Period: Business Month April Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

Source	Monthly Volume(cu. ft	Instantaneous) Flow Rate(scfm)	P(in. Hg)		Iours <u>f Op.</u>	
W-653	0	0.0	0	0	0	
W-2102	0	0.0	0	0	0	
W-2011	0	0.0	0	0	0 -	
W-2101	0	0.0	0	0	0	
Total:	<u>0</u>	0.0				

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: ______ Date: 05-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 13 (VES13) AREA VTFD-HS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

Source	•	Instantaneous Flow Rate(scfm)	P(in. Hg)		Iours f Op.	
W-653	0	0.0	0	0	0	
W-2102	0	0.0	0	0	0	
W-2011	0	0.0	0	0	0	
W-2101	0	0.0	0	0	0	
Total:	<u>0</u>	0.0	·····			•

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Vapor Extraction System 13 (VES13) AREA VTFD-HS

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and underline) treatment facility operated

May
June
31
June
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

Source	Monthly Ins Volume(cu. ft) Flo	stantaneous ow Rate(scfm)	P(in. Hg)		Iours f Op.
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 07-01-2008

Self-Monitoring Report LLNL Portable Treatment Unit 3 (PTU3) AREA TFE-E

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

Total monthly time facility operated (hours): 624

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-566	229,257	6.0
W-1109	61,034	1.6 .
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	290,291	<u>7.6</u>

5. Discharge Information:

	Receiving	
Discharge Location	Water Station	Volume
Arroyo Las Positas	TFC-R003	290,291

6. Comments:

System secure from 4/10/08 to 4/14/08 for discharge pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 04-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 3 (PTU3) AREA TFE-E

1. Reporting Period: Business Month <u>May</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

Total monthly time facility operated (hours): 733

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-08-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.5</u>

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-566	270,845	6.2
W-1109	70,215	1.6
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	341,060	7.8

5. Discharge Information:

Arroyo Las Positas	TFC-R003	_341,060
Discharge Location	Water Station	Volume
	Receiving	

6. Comments:

7. I certify that the information in this report, to the best of m	y knowledge, is true and correct
Operator Signature:	_ Date: <u>06-04-2008</u>

Self-Monitoring Report LLNL Portable Treatment Unit 3 (PTU3) AREA TFE-E

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 75

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	27,900	0.0
W-1109	7,200	0.0
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	35,100	0.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	35,100
Discharge Location	Receiving Water Station	Volume

6. Comments:

System shut down and was secured on 6/2/08 due to electronic (PLC) failure. Repairs pending. Note: Flow volume totals for W-566 and W-1109 are calculated using the last known rate and time in log 3JA130.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: <u>07-08-2008</u>

Self-Monitoring Report LLNL GAC Treatment Unit 07 (GTU07) AREA TFE-HS

2. Dates (in bold and <u>underline</u>) treated ground water was discharged April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 15 10 10 12 18 19 20 21 22 23 24 25 26 27 28 29 30 Total monthly time facility operated (hours):500 3. Monthly Compliance Data: Date compliance sampling performed (m/d/y):04-09-2008	1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>									
Total monthly time facility operated (hours):	2. Dates (in bold and <u>underline</u>) treated ground water was discharged									
3. Monthly Compliance Data: Date compliance sampling performed (m/d/y): 04-09-2008 Influent pH: 7.0 Effluent pH: 7.0 Effluent Temperature (°C): 19.8 4. Wellfield Data: Monthly Instantaneous Source Volume(gal) Flow Rate(gpm) W-2105 2,738 0.0 W-2012 108,382 3.8 Total: 111,120 3.8 5. Discharge Information: Discharge Location Water Station Volume Arroyo Las Positas TFC-R003 111,120 6. Comments:	April	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{3}{5} \frac{09}{24} \frac{10}{25} \frac{11}{26} \frac{12}{27}$	$\frac{13}{28} \frac{14}{29} \frac{15}{30}$					
Date compliance sampling performed (m/d/y): Influent pH: Effluent pH: Effluent Temperature (°C): Monthly Source Volume(gal) W-2105 W-2012 108,382 Total: Discharge Information: Discharge Location Arroyo Las Positas TFC-R003 111,120 6. Comments: Discretify that the information in this report, to the best of my knowledge, is true and correct	Total monthly time facility operated (hours): _500									
Influent pH: Effluent pH: Effluent Temperature (°C): 4. Wellfield Data: Monthly	3. Monthly Comp	3. Monthly Compliance Data:								
Source Volume(gal) Flow Rate(gpm) W-2105 2,738 0.0 W-2012 108,382 3.8 Total: 111,120 3.8 5. Discharge Information: Particle Position Water Station Volume Arroyo Las Positias TFC-R003 111,120 6. Comments:	Influent pH: 7.0 Effluent pH: 7.0 Effluent Temperature (°C): 19.8									
Source Volume(gal) Flow Rate(gpm) W-2105 2,738 0.0 W-2012 108,382 3.8 Total: 111,120 3.8 5. Discharge Information: Pare Location Water Station Volume Arroyo Las Positas TFC-R003 111,120 6. Comments:		Monthly	Instantaneous							
W-2012 108,382 3.8 Total: 111,120 3.8 5. Discharge Information: Parceiving Water Station Volume Arroyo Las Positas TFC-R003 111,120 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct	Source	•		<u>1)</u>						
5. Discharge Information: Receiving Water Station Volume Arroyo Las Positas TFC-R003 111,120 Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct	•	· ·								
Pischarge Location Mater Station Mater Station Mater Station Volume TFC-R003 111,120 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct	Total:	111,120	3.8							
<u>Arroyo Las Positas</u> TFC-R003 111,120 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct	5. Discharge Info	ormation:		D						
6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct	Discharge	Location		_	Volume					
7. I certify that the information in this report, to the best of my knowledge, is true and correct	<u>Arroyo l</u>	Arroyo Las Positas TFC-R003 111,120								
blence la la companya de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela	6. Comments:									
2 400 2000										

Self-Monitoring Report LLNL GAC Treatment Unit 07 (GTU07) AREA TFE-HS

1. Reporting Period: Business Month May Year 2008 2. Dates (in **bold** and underline) treated ground water was discharged May <u>01</u> <u>02</u> <u>03</u> <u>04</u> <u>05</u> <u>06</u> <u>07</u> <u>08</u> <u>09</u> <u>10</u> <u>11</u> <u>12</u> <u>13</u> <u>14</u> <u>15</u> <u>16</u> <u>17</u> <u>18</u> <u>19</u> <u>20</u> <u>21</u> <u>22</u> <u>23</u> <u>24</u> <u>25</u> <u>26</u> <u>27</u> <u>28</u> <u>29</u> <u>30</u> Total monthly time facility operated (hours): 540 3. Monthly Compliance Data: Date compliance sampling performed (m/d/y): 05-12-2008 Influent pH: Effluent pH: Effluent Temperature (°C): 4. Wellfield Data: Monthly Instantaneous Source Volume(gal) Flow Rate(gpm) W-2105 2,925 0.0 W-2012 108,583 3.5 Total: **111,508** <u>3.5</u> 5. Discharge Information: Receiving Discharge Location Water Station Volume Arroyo Las Positas TFC-R003 111,508 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct. _ Date: **06-04-2008** Operator Signature:

Self-Monitoring Report LLNL GAC Treatment Unit 07 (GTU07) AREA TFE-HS

1. Reporting Per	riod: Busi	ness Mor	ith <u>Ju</u>	<u>ne</u> Ye	ar <u>200</u>	<u>8</u>					
2. Dates (in bol	l d and <u>un</u>	derline)	treated g	round w	ater v	vas d	lisch	argeo	d		
May June	$\frac{31}{01}$ $\frac{02}{16}$	03 04 19	05 06 21	07 08 23		10 25	11 26	12 27	13 28	14 29	15 30
Total monthly time facility operated (hours): <u>213</u>											
3. Monthly Compliance Data:											
Date compliance sampling performed (m/d/y):											
4. Wellfield Dat	a:										
Source	Mon <u>Volu</u>	thly me(gal)	Instanta Flow R		<u>ı)</u>						
W-2105 W-2012		1,112 44,327		0.0 4.0							
Total:		45,439		4.0							
5. Discharge Information: <u>Discharge Location</u>					Wa	eivii ter S	<u>tatio</u>		Ž	/olur	
Arroyo Las Positas TFC-R003 45,439											
6. Comments: System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off.											
7. I certify that the information in this report, to the best of my knowledge, is true and correct.											
Operator Signature: Date: 07-03-2008											

Self-Monitoring Report LLNL Portable Treatment Unit 9 (PTU9) AREA TFE-NW

1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>								
2. Dates (in bold and <u>underline</u>) treated ground water was discharged								
April	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{05}{20} \frac{06}{21} \frac{07}{22}$	$\frac{08}{23} \frac{09}{24} \frac{10}{25} \frac{11}{26} \frac{12}{25}$	$\frac{2}{7} \frac{13}{28} \frac{14}{29} \frac{15}{30}$				
Total monthly time facility operated (hours): <u>730</u>								
3. Monthly Compliance Data:								
Date compliance sampling performed (m/d/y): $\frac{04-10-2008}{7.5}$ Effluent pH: $\frac{7.5}{7.5}$ Effluent Temperature ($^{\circ}$ C): $\frac{21.4}{5}$								
4. Wellfield Dat	a:							
Source	Monthly Volume(gal)	Instantaneou Flow Rate(g						
W-1211 W-1409	841,476 79,077	19.4 1.8						
Total:	920,553	21.2						
5. Discharge Inf	formation:		Danaisina					
Discharge	Location		Receiving Water Station	Volume				
Arroyo Las Positas TFC-R003 920,553								
6. Comments:								
7. I certify that the information in this report, to the best of my knowledge, is true and correct Operator Signature: Date: 05-01-2008								

Self-Monitoring Report LLNL Portable Treatment Unit 9 (PTU9) AREA TFE-NW

1. Reporting Per	riod: Business Mon	ith <u>May</u> Year	2008							
2. Dates (in bol	d and <u>underline</u>)	treated ground wa	ter was discharge	ed						
May		$\begin{array}{c cccc} \underline{05} & \underline{06} & \underline{07} & \underline{08} \\ \underline{20} & \underline{21} & \underline{22} & \underline{23} \end{array}$								
Total month	ly time facility ope	erated (hours):'	<u>730</u>							
3. Monthly Com	pliance Data:									
Date compliance sampling performed (m/d/y): $05-08-2008$ Influent pH: 7.5 Effluent pH: 7.5 Effluent Temperature (°C): 21.3										
4. Wellfield Dat	a:									
Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)								
W-1211 W-1409	841,375 2,412	19.5 0.0								
Total:	843,787	<u>19.5</u>								
5. Discharge Info	ormation:		Ď							
<u>Discharge</u>	Location		Receiving Water Station	Volume						
Arroyo	<u>Las Positas</u>		TFC-R003	843,787						
6. Comments: W-1409 w	ell pump failed on	5/6/08, repairs pe	nding.							
7. I certify that the	ne information in t	his report, to the b	est of my knowle	dge, is true and con	rrect.					
Operator Signatu	are://////	M	Date: 0	6-04-2008						
	"									

Self-Monitoring Report LLNL Portable Treatment Unit 9 (PTU9) AREA TFE-NW

1. Repor	ting Period	: Business	Month	<u>June</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates	(in bold ar	nd <u>underlii</u>	ne) tre	eated grou	ınd wa	iter w	vas d	ischa	arge	d			
May June	-	<u>02</u> <u>03</u>		$\frac{5}{21} \frac{06}{21} \frac{07}{22}$									
Tota	l monthly t	ime facility	opera	ted (hours	s): _	<u>751</u>							
3. Monthly Compliance Data:													
Date compliance sampling performed (m/d/y): Influent pH: Effluent pH: Effluent Temperature (°C): 06-09-2008 7.5 7.5 21.4													
4. Wellfi	eld Data:												
<u>So</u>	<u>urce</u>	Monthly Volume(g		nstantane low Rate									
	-1211 -1409	864,5	773 0	19 0	.4 .0								
То	tal: *	864,5	773	<u>19</u>	<u>.4</u>								
5. Discha	arge Inform	ation:				D							
<u>Di</u>	scharge Lo	cation					eivir ter S	_	<u>n</u>	Š	Volur	<u>ne</u>	
	Arroyo Las	s Positas				<u>T</u>	FC-l	R003	<u>3</u>	8	<u>864,5</u>	73	
6. Comments: W-1409 well pump failed on 5/6/08, repairs pending.													
7. I certify that the information in this report, to the best of my knowledge, is true and correct													
Operator	Departure: Date: <u>07-08-2008</u>												

Self-Monitoring Report LLNL Mini Treatment Unit 04 (MTU04) AREA TFE-SE

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April <u>01</u> <u>02</u> 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 45

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-359	17,520	6.5
Total:	17,520	6.5

5. Discharge Information:

	Receiving	
<u>Discharge Location</u>	Water Station	<u>Volume</u>
Arrovo Las Positas	TFC-R003	17.520

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. No compliance samples taken for the month of April. This facility will be restarted once the pump is replaced. Note: Instantaneous flow rate is reflective of April 1st and April 2 flow rate.

7. I certify that the information in this report to the best of my knowledge, is true and correct.

Operator Signature: Mysmin 1 - Mysic Date: 05-08-2008

Self-Monitoring Report LLNL Mini Treatment Unit 04 (MTU04) AREA TFE-SE

1. Reporting Period: Business Month May Year 2008

2. Dates (in bold and <u>underline</u>) treated ground water was discharged															
May	01 16	02 17	03 18	04 19	05 20		07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30
Total month	ly ti	me fa	acilit	у ор	erate	d (ho	ours)	:	<u>o</u>						
3. Monthly Com	plia	nce I	Data:												
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):															
4. Wellfield Data:															
Source	Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)														
W-359				0			6.4	ı							
Total:				0			<u>6.</u> 4	<u> </u>							
5. Discharge Info	orma	ation	•						_						
Discharge	Loc	atior	<u>1</u>							eivi ter S	ng <u>tatio</u>	<u>n</u>	`	Volu	<u>ne</u>
Arroyo	Arroyo Las Positas							TFC-R003					-	0	
6. Comments: Facility fa pump has compliance once the p and April	not l e sai	peen mple is re	repla s tak plac	aced en fo ed. N	and or the Note:	the factorial the	acilit nth o antar	y has of Ap neous	s not ril. ' s flov	ope This	rated facil	sinc	e 4/2 vill b	2/08. e res	No tarted

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

__Date: <u>06-23-2008</u>

Operator Signature:

Self-Monitoring Report LLNL Mini Treatment Unit 04 (MTU04) AREA TFE-SE

1. Reporting	. Reporting Period: Business Month <u>June</u> Year <u>2008</u>															
2. Dates (in	bold an	d <u>un</u>	derlin	<u>ne</u>)	trea	ted g	rour	d wa	ıter v	vas c	lisch	arge	d			
May	31															
June	01 16	02 17		04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total m	onthly ti	me fa	acility	ope	erate	d (ho	ours)	:	0							
3. Monthly Compliance Data:																
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):																
4. Wellfield	4. Wellfield Data:															
Source		Mon <u>Volu</u>	thly me(g	<u>al)</u>		stanta ow R										
W-359	9			0			0.0)								
Total:				0			0.0	<u>)</u>								
5. Discharge	Informa	ation:							ъ							
Disch	arge Loc	ation	1							eivii ter S	ng <u>tatio</u>	<u>n</u>	Ž	/olu	<u>ne</u>	
Arroyo Las Positas TFC-I							<u>R003</u>	<u>3</u>			0					
5. Comments: Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. No compliance samples taken for the month of June. This facility will be restarted																

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

once the pump is replaced. The facility did not operate in the month of June.

Operator Signature: Mrs. Date: 07-01-2008

Self-Monitoring Report LLNL Mini Treatment Unit 03 (MTU03) AREA TFE-SW

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 715

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-01-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.2</u>

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-1520	0	0.0
W-1518	75,613	1.7
W-1522	57,987	1.3
Total:	133,600	3.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	133,600
Discharge Location	Water Station	<u>Volume</u>
	Receiving	

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Demonstration | UNSO | Date: 05-07-2008

Self-Monitoring Report LLNL Mini Treatment Unit 03 (MTU03) AREA TFE-SW

1. Reporting Period: Business Month May Year 2008 2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 <u>16</u> <u>17</u> <u>18</u> <u>19</u> <u>20</u> <u>21</u> <u>22</u> <u>23</u> <u>24</u> <u>25</u> <u>26</u> <u>27</u> <u>28</u> <u>29</u> <u>30</u> Total monthly time facility operated (hours): 718 3. Monthly Compliance Data: Date compliance sampling performed (m/d/y): 05-15-2008 Influent pH: 7.0 Effluent pH: <u>7.5</u> Effluent Temperature (°C): <u>19.2</u> 4. Wellfield Data: Monthly Instantaneous Source Volume(gal) Flow Rate(gpm) W-1520 0.0 W-1518 74,666 1.7 W-1522 58,150 1.3 Total: <u>132,816</u> <u>3.0</u> 5. Discharge Information: Receiving **Discharge Location** Water Station Volume **Arroyo Las Positas TFC-R003** 132,816 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct. __ Date: <u>06-02-2008</u> Operator Signature:

Self-Monitoring Report LLNL Mini Treatment Unit 03 (MTU03) AREA TFE-SW

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): <u>640</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.2</u>

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-1520	0	0.0
W-1518	65,953	1.7
W-1522	53,038	1.4
Total:	118,991	3.1

5. Discharge Information:

<u>Discharge Location</u>

<u>Nature Station</u>

<u>Nature </u>

6. Comments:

Did not operate June 20,21,22 for software update.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 07-01-2008

Self-Monitoring Report LLNL Mini Treatment Unit 05 (MTU05) AREA TFE-W

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 634

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-15-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	6.5
Effluent Temperature (°C):	18.5

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-305 W-292	346,853 232,681	9.1 6.3
Total:	<u>579,534</u>	<u>15.4</u>

5. Discharge Information:

	Receiving	
Discharge Location	Water Station	<u>Volume</u>
Arrovo Las Positas	TFC-R003	579.534

6. Comments:

Facility did not operate the weekend of April 5th and 6th due to low facility air flow.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-06-2008

Self-Monitoring Report LLNL Mini Treatment Unit 05 (MTU05) AREA TFE-W

1. Reporting Per	riod: Business Month	<u>May</u> Yea	ar <u>2008</u>	
2. Dates (in bol	d and <u>underline</u>) trea	ited ground w	vater was discharged	1
May	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Total month	ly time facility operate	ed (hours):	715	
3. Monthly Com	pliance Data:			
Influent pH: Effluent pH		ned (m/d/y):	05-15-2008 7.5 7.5 21.5	
4. Wellfield Dat	a:			
Source	•	stantaneous ow Rate(gpm	<u>)</u>	
W-305 W-292	391,712 264,279	9.1 6.1		
Total:	655,991	<u>15.2</u>		
5. Discharge Inf <u>Discharge</u>			Receiving Water Station	<u>Volume</u>
Arroyo	Las Positas		TFC-R003	655,991
6. Comments:				
7. I certify that t	he information in this i	report, to the	best of my knowled Date: 06	

Self-Monitoring Report LLNL Mini Treatment Unit 05 (MTU05) AREA TFE-W

1. Reporting Period: Business Month	<u>June</u>	Year <u>2008</u>
-------------------------------------	-------------	-------------------------

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	20	21	22	<u>23</u>	24	25	26	27	28	29	30

Total monthly time facility operated (hours): <u>738</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	06-09-2008
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305 W-292	405,564 271,816	9.1 6.1
Total:	677,380	<u>15.2</u>

5. Discharge Information:

Arroyo Las Positas	TFC-R003	677,380
Discharge Location	Water Station	<u>Volume</u>
	Receiving	

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 07-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 16 (VES16) AREA VTFE-ELM

1. Reporting Period: Business Month **April** Year **2008**

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		H	Iours
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	f Op.
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0 .	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the in	nformation in this report, to	the best of my knowle	dge, is true and correct
•	nformation in this report, to	· · · · · · · · · · · · · · · · · · ·	<i>U</i> ,
Operator Signature:	Mulloca	Date: 0	5-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 16 (VES16) AREA VTFE-ELM

- 1. Reporting Period: Business Month May Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Hours
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>T(°F)</u> c	of Op.
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 06-04-2008

Self-Monitoring Report LLNL Vapor Extraction System 16 (VES16) AREA VTFE-ELM

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

	Monthly	Instantaneous		H	Iours	
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	f Op.	
W-1909	0	0.0	0	0	0	
W-1903	0	0.0	0	0	0	
W-2305	0	0.0	0	0	0	
W-543-003	0	0.0	0	0	0	
W-543-001	0	0.0	0	0	0	
W-543-1908	0	0.0	0	0	0	
Total:	<u>0</u>	0.0				

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and corre
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Operator Signature: ________ Date: <u>07-03-2008</u>

Self-Monitoring Report LLNL Vapor Extraction System 12 (VES12) AREA VTFE-HS

- 1. Reporting Period: Business Month April Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Hours
Source	Volume(cu. f	t) Flow Rate(scfm)	P(in. Hg)	<u>T(°F)</u> o	of Op.
W-ETS-2010)B 0	0.0	0	0	0
W-ETS-2010)A 0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008	6A 0	0.0	0	0	0
W-ETS-2008	B 0	0.0	0	0	0
W-2105	0	0.0	0	0	0
Total:	<u>0</u>	0.0			***************************************

4. Comments:

Facility did not operate in the month of April 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ringvacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report to the best of my knowledge, is true and correct.

Operator Signature: Suppose | Lines | Date: 05-06-2008

Self-Monitoring Report LLNL Vapor Extraction System 12 (VES12) AREA VTFE-HS

- 1. Reporting Period: Business Month May Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Iours
Source	Volume(cu. ft	Flow Rate(scfm)	$\underline{P(in. Hg)}$	<u> (°F)</u> o	f Op.
W-ETS-2010)B 0	0.0	0	0	0
W-ETS-2010)A 0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008	BA 0	0.0	0	0	0
W-ETS-2008	BB 0	0.0	0	0	0
W-2105	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

Facility did not operate in the month of May 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump . Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the in	nfor mati on in th	is report,	to the best of my	knowledge, is true	and correct.
Operator Signature: .	Slou	Covas	un G'	Date: 06-02-2008	

Self-Monitoring Report LLNL Vapor Extraction System 12 (VES12) AREA VTFE-HS

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 31 June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Iours
Source	Volume(cu. ft	E) Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	f Op.
W-ETS-2010)B 0	0.0	0	0	0
W-ETS-2010)A 0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008	8A 0	0.0	0	0	0
W-ETS-2008	BB 0	0.0	0	0	0
W-2105	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate in the month of April 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: 47-01-2008

Self-Monitoring Report LLNL GAC Treatment Unit 01 (GTU01) AREA TFG-1

1. Reporting Peri	od: Business Mor	nth <u>April</u> Ye	ear <u>2008</u>	
2. Dates (in bold	and <u>underline</u>)	treated ground w	ater was discharge	d
			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Total monthly	y time facility ope	erated (hours):	<u>696</u>	
3. Monthly Comp	oliance Data:			
Influent pH: Effluent pH:	nce sampling per perature (°C):	formed (m/d/y):	$ \begin{array}{r} \underline{04-10-2008} \\ \underline{7.0} \\ \underline{7.0} \\ \underline{19} \end{array} $	
4. Wellfield Data	:			
Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)	
W-1111	381,870	8.8		
Total:	381,870	<u>8.8</u>		
5. Discharge Info	rmation:			
Discharge 1	Location		Receiving Water Station	Volume
Arroyo S	Seco		TFG-ASW	381,870
6. Comments:				
				lge, is true and correct
Operator Signatur	re:	W	Date: 0 4	<u>1-30-2008</u>

Self-Monitoring Report LLNL GAC Treatment Unit 01 (GTU01) AREA TFG-1

1. Reporting Per	riod: Business Mon	ith <u>May</u> Y	ear <u>2008</u>	
2. Dates (in bo)	ld and underline)	treated ground	water was discharg	ed
May	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{05}{20} \ \frac{06}{21} \ \frac{07}{22} \ \frac{9}{21}$	$\frac{08}{23} \frac{09}{24} \frac{10}{25} \frac{11}{26} \frac{12}{25}$	$\frac{2}{7} \frac{13}{28} \frac{14}{29} \frac{15}{30}$
Total month	nly time facility ope	erated (hours):	<u>667</u>	
3. Monthly Con	npliance Data:			
Influent pH Effluent pH		formed (m/d/y)	25-06-2008 7.0 7.0 19.1	
4. Wellfield Dat	a:			
Source	Monthly Volume(gal)	Instantaneous Flow Rate(gr		
W-1111	365,804	8.8		
Total:	365,804	8.8		
5. Discharge Inf	formation:			
Discharge	Location		Receiving Water Station	Volume
Arroyo	Seco		TFG-ASW	365,804
6. Comments:				
7. I certify that to Operator Signat	1/1/11/	his report, to th		edge, is true and correct

Self-Monitoring Report LLNL GAC Treatment Unit 01 (GTU01) AREA TFG-1

1. Reporting Per	iod: Business Month	June Year	2008	
2. Dates (in bol e	d and <u>underline</u>) trea	ated ground wa	ter was discharged	
May June	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 06 07 08 23	$\frac{09}{24} \frac{10}{25} \frac{11}{26} \frac{12}{27} \dots$	$\frac{13}{28} \frac{14}{29} \frac{15}{30}$
Total month	ly time facility operate	ed (hours):	628	
3. Monthly Com	pliance Data:			
Influent pH: Effluent pH:	ance sampling perform	ned (m/d/y):	$ \begin{array}{r} \underline{06-05-2008} \\ \underline{7.0} \\ \underline{7.0} \\ \underline{18.9} \end{array} $	
4. Wellfield Data	a:			
Source	•	stantaneous ow Rate(gpm)		
W-1111	342,103	8.8		
Total:	342,103	8.8		
5. Discharge Info	ormation:		Receiving	
Discharge	Location		Water Station	Volume
Arroyo	Seco		TFG-ASW	342,103
6. Comments: Facility se	cure from 6/20/08 to 6	5/24/08 for soft	ware update.	
7. I certify that the	ne information in this:	report, to the b	est of my knowledg	ge, is true and correct
Operator Signatu	rre://////////	ll	Date: 07-	08-2008

Land Observation Report date: TFG-ASW - Arroyo Seco

1.	Reporting Period: Business Month April Year 200	8_	
2.	Date compliance sampling performed <u>04-10-2008</u>		
3.	Weather Conditions:		
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	10.2 0 8/ SW	
4.	Receiving Data:		
	Sample Location pH Temperature (C) Receiving Water N/M N/M		
5.	Land Observations, as "Yes" or "No", for reporting i	month:	
	<u>Visual Observations</u>	<u>Effluent</u>	Receiving Water
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>N/A</u>
6.	Comments:		
7.	I certify that the information in this report, to the bes	st of my knowledge,	is true and correct.
	Operator Signature:	Date: 04-3	0-2008

Land Observation Report date: TFG-ASW - Arroyo Seco

1.	Reporting Period: Business Month May Year 2008	<u>:</u>	
2.	Date compliance sampling performed <u>05-06-2008</u>		
3.	Weather Conditions:		
	Average air tempertaure (°C): 6-day total precipitation (in): Average wind speed/direction (mph):	13.2 0 5/ SSW	
4.	Receiving Data:		
	Sample Location pH Temperature (C)		
	Receiving Water N/M N/M		
5.	Land Observations, as "Yes" or "No", for reporting r	nonth:	
	<u>Visual Observations</u>	Effluent	Receiving Water
	Floating and Suspended Materials of Waste Origin Odor Discoloration and Turbidity Evidence of Beneficial Water Use	No No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>N/A</u>
6.	Comments:		
7.	I certify that the information in this report, to the bes	t of my knowledge, i	s true and correct.
	Operator Signature	Date: 06-0	4-2008

Land Observation Report date: TFG-ASW - Arroyo Seco

1.	Reporting Period: Busine	ess Month <u>June</u> Year <u>2008</u>	8_			
2.	Date compliance sampling performed <u>06-05-2008</u>					
3.	Weather Conditions:					
	Average air temperta 6-day total precipita Average wind speed	tion (in):	13.9 0 8/ SW			
4.	Receiving Data:					
	Sample Location pH	Temperature (C)				
	Receiving Water N/N	<u>I</u> <u>N/M</u>				
5.	Land Observations, as "	Yes" or "No", for reporting	month:			
	Visual Observations		<u>Effluent</u>	Receiving Water		
	Floating and Suspended Odor Discoloration and Turbic Evidence of Beneficial V		No Not Required Not Required	<u>No</u> <u>No</u> <u>No</u> <u>N/A</u>		
6.	Comments:					
7.	I certify that the informa	tion in this report, to the bes	st of my knowledge, i	is true and correct.		
	Operator Signature: Date: <u>07-03-2008</u>					

Self-Monitoring Report LLNL Mini Treatment Unit 02 (MTU02) AREA TFG-N

1. Reporting Per	iod: Business Mon	th <u>April</u>	Year <u>2008</u>	
2. Dates (in bole	d and <u>underline</u>)	treated ground	l water was discharge	d
April			$ \begin{array}{c cccccccccccccccccccccccccccccccc$	
Total month	ly time facility ope	erated (hours):	<u>727</u>	
3. Monthly Com	pliance Data:			
Influent pH: Effluent pH:	mperature (°C):	formed (m/d/y): <u>04-10-2008</u> <u>7.0</u> <u>7.0</u> <u>19.8</u>	
	Monthly	Instantaneou		
Source	Volume(gal)	Flow Rate(g)		
W-1807 W-1806	147,603 60,836	3.2 1.4		
Total:	208,439	<u>4.6</u>		
5. Discharge Info	ormation:			
Discharge	Location		Receiving Water Station	Volume
Arroyo	Las Positas		TFC-R003	208,439
6. Comments:				
7. I certify that the	ne information in t	his report, to the	ne best of my knowled	dge, is true and correct
Operator Signatu	ire:	W.	Date: 0 4	<u>1-30-2008</u>

Self-Monitoring Report LLNL Mini Treatment Unit 02 (MTU02) AREA TFG-N

1. Reporting Period: Business Month May Year 2008 2. Dates (in **bold** and underline) treated ground water was discharged May <u>01</u> <u>02</u> <u>03</u> <u>04</u> <u>05</u> <u>06</u> <u>07</u> <u>08</u> <u>09</u> <u>10</u> <u>11</u> <u>12</u> <u>13</u> <u>14</u> <u>15</u> <u>16</u> <u>17</u> <u>18</u> <u>19</u> <u>20</u> <u>21</u> <u>22</u> <u>23</u> <u>24</u> <u>25</u> <u>26</u> <u>27</u> <u>28</u> <u>29</u> <u>30</u> Total monthly time facility operated (hours): 729 3. Monthly Compliance Data: Date compliance sampling performed (m/d/y): 05-07-2008 Influent pH: Effluent pH: Effluent Temperature (°C): 18.6 4. Wellfield Data: Monthly Instantaneous Volume(gal) Source Flow Rate(gpm) W-1807 160,416 3.6 W-1806 60,435 1.4 Total: 220,851 <u>5.0</u> 5. Discharge Information: Receiving Discharge Location Water Station Volume Arroyo Las Positas **TFC-R003** 220,851 6. Comments: 7. I certify that the information in this report, to the best of my knowledge, is true and correct. Date: **06-04-2008** Operator Signature;

Self-Monitoring Report LLNL Mini Treatment Unit 02 (MTU02) AREA TFG-N

	1.	Reporting	Period:	Business	Month	June	Year 2008
--	----	-----------	---------	----------	-------	-------------	------------------

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): <u>511</u>

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-05-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.4</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807 W-1806	113,199 42,211	3.6 1.3
Total:	155,410	4.9

5. Discharge Information:

Arroyo Las Positas	TFC-R003	155,410
Discharge Location	Receiving Water Station	Volume

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: <u>07-03-2008</u>

Self-Monitoring Report LLNL Portable Treatment Unit 5 (PTU5) AREA TF406

1. Re	porting	Period:	Business	Month	April	Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	0	0.0
W-1310	0	0.0
GSW-445	0	0.0
	B0000000000000000000000000000000000000	
Total:	0	0.0

5. Discharge Information:

Arroyo Las Positas	TFC-R003	
Discharge Location	Receiving Water Station	Volume

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. System to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: ///// Date: 04-30-2008

Self-Monitoring Report LLNL Portable Treatment Unit 5 (PTU5) AREA TF406

1. Reporting Period: Business Month <u>May</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): $\underline{1}$

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-12-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>24.9</u>

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	179	3.7
W-1310	0	0.0
GSW-445	147	2.9
Total:	326	6.6

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated. System operated on 5/12/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 06-04-2008

Self-Monitoring Report LLNL Portable Treatment Unit 5 (PTU5) AREA TF406

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	<u>10</u>	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): _1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-10-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>25.8</u>

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1309	234	4.2
W-1310	0	0.0
GSW-445	158	3.0
Total:	<u>392</u>	<u>7.2</u>
		·

5. Discharge Information:

Discharge Location	water Station	Volume
Discharge Location	water Station	<u>v orunic</u>
Discharge Location	Receiving Water Station	Volume

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated. System operated on 6/10/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 07-03-2008

Self-Monitoring Report LLNL GAC Treatment Unit 03 (GTU03) AREA TF406-NW

1. Reporting Peri	od:	Busi	ness	Mo	nth	_A _I	oril	Yea	ır <u>20</u>	<u>08</u>						
2. Dates (in bold	l and	d <u>un</u>	derli	ine)	trea	ted g	groun	ıd wa	ater v	vas c	lisch	arge	d			
	01 16	02 17	03 18	04 19	05 20		07 22		09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total monthl	y tir	ne fa	acilit	у ор	erate	d (h	ours)	: _	<u>70</u>							
3. Monthly Comp	pliar	nce I	Data:													
Date complia Influent pH: Effluent pH: Effluent Tem 4. Wellfield Data	npera		•		form	ned (m/d/	y):	<u>04</u>	-28-	2008 7.0 7.0 21.8	· ·				
		Mon	•				aneo									
Source	,	<u>Volu</u>	ıme(gal)	<u>Flo</u>	ow R	ate(g	gpm)	•							
W-1801			8,	727			2.0	0								
Total:			8,	<u>727</u>	Maria de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición de		2.0	<u>0</u>								
5. Discharge Info	rma	ition:							_							
Discharge 1	Loca	ation	<u>[</u>							ceivi ter S	ng Statio	<u>n</u>	Ž	Volu	<u>me</u>	
<u>Arroyo I</u>	Las :	Posi	<u>tas</u>						_ <u>T</u>	FC-	R003	<u>3</u>		8,7	<u> 27</u>	
6. Comments: System operintake. System									_			·fow]	ling (of pu	mp	
7. I certify that th	e in	form	atio	n in 1	his f	epor	t, to	the b	est o	of my	kno	wlec	lge, i	s tru	e and	correct
Operator Signatur	re:/_	1/100	U (<u>()</u>		_				Dat	e: <u>05</u>	<u>5-02-</u>	<u> 2008</u>	<u> </u>	

Self-Monitoring Report LLNL GAC Treatment Unit 03 (GTU03) AREA TF406-NW

1. Reporting Per	iod:	Busi	ness	Mor	nth	_M	<u>ay</u>	Year	r <u>200</u>	8						
2. Dates (in bole	d an	d <u>un</u>	derli	ne)	trea	ted g	grour	nd wa	ater v	vas c	lisch	arge	d			
May		02 17		04 19		06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ly ti	me fa	acilit	у ор	erate	d (h	ours)):	<u>0</u>							
3. Monthly Com	plia	nce I)ata:													
Date compli Influent pH: Effluent pH: Effluent Ten	nper			_	form	ned (m/d/	y): <u>N</u>	lot M	<u>Ieas</u>	ured	•				
4. Wellfield Data	a:															
Source		Mon <u>Volu</u>	•	gal)			aneo late(g	us gpm)								
W-1801			9,0	562			0.0	0			*	•				
Total:	•		9,0	<u> </u>			0.0	<u>0</u>								
5. Discharge Info	orma	ition:							_							
Discharge	Loc	ation								eivii ter S	_	<u>n</u>	Ž	Volu	<u>me</u>	
Arroyo	Las	Posi	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>		9,6	<u>662</u>	
6. Comments: System sec	cure	pend	ling '	well	W-1	801	pum	p rep	airs.							
7. I certify that the	ne in	form	atio	ı in t	his r	epor	t, to	the b	est o	f my	kno	wled	lge, i	s tru	e and	correct.
Operator Signatu	re:/ <u>_</u>	1/11	U		1	/	2				Date	e: <u>06</u>	<u>5-04-</u>	<u> 2008</u>	<u>.</u>	

Self-Monitoring Report LLNL GAC Treatment Unit 03 (GTU03) AREA TF406-NW

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>																
2. Dates (in bold and <u>underline</u>) treated ground water was discharged																
May June	31 01 16		03 18	04 19		06 21		08 23	09 24		11 26	12 27	13 28	14 29	15 30	
Total month	ly tii	me fa	acilit	у ор	erate	d (ho	ours)	: _	<u>0</u>							
3. Monthly Com	3. Monthly Compliance Data:															
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):																
4. Wellfield Data	a:															
Source		Mon <u>Volu</u>	•	gal)		stanta ow R		us gpm)								
W-1801				0			0.0	0								
Total:	•		-	0			0.0	<u>0</u>								
5. Discharge Info	orma	ation	•						Day	! !						
Discharge	Loc	ation	<u>1</u>							ceivi ter S	ng <u>tatio</u>	<u>n</u>	<u> </u>	Volu	<u>me</u>	
Arroyo	Las	<u>Posi</u>	<u>tas</u>						_ <u>T</u>	FC-	<u>R003</u>	3			_0	
6. Comments: System secure pending well W-1801 pump repairs.																
7. I certify that the	7. I certify that the information in this report, to the best of my knowledge, is true and correct.															
Operator Signatu	Operator Signature: Date: <u>07-03-2008</u>															

Self-Monitoring Report LLNL Solar Treatment Unit 09 (STU09) AREA TF518-N

1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>														
2. Dates (in bold	and <u>ur</u>	derline	<u>e</u>) trea	ited g	groun	ıd wa	iter v	vas č	lisch	arge	d			
1	01 02 16 17	03 (18 1	9 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total monthly	time fa	acility	operate	ed (ho	ours)	:	<u>0</u>							
3. Monthly Compl	liance I	Data:												
Date compliar Influent pH: Effluent pH: Effluent Temp			perform	ned (m/d/	y): <u>N</u>	ot N	<u>Ieas</u>	<u>ured</u>					
4. Wellfield Data:						*					,			
Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)														
W-1410			0		0.0)								
Total:			0		0.0	<u>)</u>								
5. Discharge Infor	mation						D							
Discharge L	ocation	1						eivi ter S	ng <u>tatio</u>	<u>n</u>	<u> </u>	Volu	<u>ne</u>	
_Arroyo L	as Posi	tas					_T	FC-	R003	<u>3</u>			_0	
6. Comments: The treatmenthe regulator									nding	redu	uctio	n. Do	OE an	ıd
7. I certify that the	inform	ation i	n this					₽my	kno	wled	lge, i	s tru	e and	correct.
Operator Signature	e:	bu	,	Chi	Jas) Les	<u></u>		Dat	e: <u>05</u>	5-01-	<u> 2008</u>		

Self-Monitoring Report LLNL Solar Treatment Unit 09 (STU09) AREA TF518-N

1. Reporting Period: Business Month <u>May</u> Year <u>2008</u>

2. Dates (in bold and <u>underline</u>) treated ground water was discharged														
May 01 16		03 18	04 19	05 20	06 21	07 22		09 24	10 25	11 26	12 27	13 28	14 29	15 30
Total monthly to	ime fa	acilit	у ор	erate	d (ho	ours)	: _	<u>0</u>						
3. Monthly Complia	ınce D	Oata:												
Date compliance Influent pH: Effluent pH: Effluent Tempe		-		form	ied (1	m/d/	y): <u>N</u>	lot M	<u>Ieası</u>	ured				
4. Wellfield Data:														
Source	Mon <u>Volu</u>	•	gal)		stanta ow R		us gpm)							
W-1410			0			0.0)							
Total:			<u>0</u>			0.0	<u>)</u>							
5. Discharge Inform	ation:							Dag		2.00				
Discharge Loc	cation	<u>!</u>							ceivii ter S	_	<u>n</u>	Ž	/oluı	<u>ne</u>
Arroyo Las	Posi	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>			_0
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.														
7. I certify that the information in this report, to the best of my knowledge, is true and correct.														
Operator Signature: Date: 06-02-2008														

Self-Monitoring Report LLNL Solar Treatment Unit 09 (STU09) AREA TF518-N

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>																
2. Dates (in bold and <u>underline</u>) treated ground water was discharged																
May June	June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30															
Total month	ly tii	me fa	acilit	у ор	erate	d (ho	ours)	: _	<u>o</u>							
3. Monthly Compliance Data:																
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):																
4. Wellfield Data	a:															
Source	Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)															
W-1410				0			0.0	0								
Total:	•			0			0.0	0								
5. Discharge Info	orma	ıtion:	:						Dag	ceivi	na					
Discharge	Loc	ation	<u>1</u>							iter S	_	<u>n</u>		Volu	<u>me</u>	
Arroyo	Las	<u>Posi</u>	<u>tas</u>						_T	FC-	R00 :	<u>3</u>			_0	
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.																
7. I certify that the information in this report, to the best of my knowledge, is true and correct. Operator Signature: Date: 07-01-2008																
Operator Signatu	ıre: _		<u> </u>	U	1	, Ca	WO	ju		-	. Dat	te: 0 7	<u>7-01</u> -	<u>·2008</u>	<u>3</u>	

Self-Monitoring Report LLNL Treatment Facility 518-HDTANK (TF518-HDTANK) AREA TF518-PZ

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): $\underline{0}$

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	0	0.0

5. Discharge Information:

<u>Discharge Location</u> <u>Water Station</u> <u>Volume</u>	Arroyo Las Positas	TFC-R003	0
	Discharge Location	Water Station	Volume

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 07-01-2008

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 1 (CRD1) AREA TF5475-1

1. Reporting Period: Business Month <u>April</u> Year <u>2008</u>														
2. Dates (in bold	and ur	nderline) trea	ited g	groun	ıd wa	iter v	vas c	lisch	arge	d			
1	01 02 16 17	03 04 18 19		06 21	07 22		09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total monthly	y time f	acility o	perate	ed (he	ours)	: _	<u>0</u>						•	
3. Monthly Comp	liance I	Data:												
Date compliant Influent pH: Effluent pH: Effluent Temp			erforn	ned (m/d/ <u>;</u>	y): <u>N</u>	lot M	<u> 1eas</u>	<u>ured</u>	:				
4. Wellfield Data:														
Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)														
W-1302-2		0			0.0)								
Total:		0	1		0.0	<u>)</u>								
5. Discharge Infor	rmation	:					D	, , .						
Discharge I	_ocation	<u>1</u>						eivii ter S	ng <u>tatio</u>	<u>n</u>	Ž	Volui	<u>me</u>	
CRD-1 in	jection	<u>l</u>					V	V-13	<u>02-1</u>				0	
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.														
7. I certify that the information in this report, to the best of my knowledge, is true and correct.														
Operator Signatur	Operator Signature Date: 05-01-2008													

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 1 (CRD1) AREA TF5475-1

1. Reporting Period: Business Month <u>May</u> Year <u>2008</u>															
2. Dates (in bol	d and	d <u>un</u>	derli	<u>ne</u>)	trea	ted g	grour	nd wa	ater v	vas d	lisch	arge	d		
May	01 16	02 17		04 19		06 21	07 22	08 23		10 25	11 26	12 27	13 28	14 29	15 30
Total month	ly tiı	ne fa	acilit	у ор	erate	d (h	ours)): _	<u>0</u>						
3. Monthly Com	pliar	nce D)ata:												
Date compliance sampling performed (m/d/y): Not Measured Influent pH: Effluent pH: Effluent Temperature (°C):															
4. Wellfield Data:															
Source	Monthly Instantaneous Source Volume(gal) Flow Rate(gpm)														
W-1302-2	,			0			0.0	0							
Total:	•			<u>0</u>			0.0	0							
5. Discharge Inf	orma	ition:							Dag						
Discharge	Loc	<u>ation</u>	<u>!</u>							ceivii ter S	_	<u>n</u>	•	Volu	<u>me</u>
CRD-1	injec	<u>:tion</u>								V-13	<u>02-1</u>				_0
6. Comments: The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.															
7. I certify that the information in this report, to the best of my knowledge, is true and correct															
Operator Signatu	Operator Signature: Date: 06-04-2008														

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 1 (CRD1) AREA TF5475-1

1. Reporting Per	riod:	Busi	iness	Moı	nth	<u>Ju</u>	ne	Yea	r <u>200</u>	<u>)8</u>					
2. Dates (in bol	ld an	d <u>un</u>	derli	ine)	trea	ted g	grour	ıd wa	ater v	vas c	lisch	arge	d		
May June	31 01 16	02 17	03 18	04 19	05 20	06 21		08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30
Total month	nly ti	me fa	acilit	у ор	erate	d (ho	ours)	: _	<u>0</u>						
3. Monthly Con	nplia	nce I	Data:												
Date compliant pH Influent pH Effluent pH Effluent Ter 4. Wellfield Dat	: [: mper			_	form	ned (1	m/d/	y): <u>N</u>	lot M	<u>Ieas</u>	ured	i			
4. Weillield Dat	ia.														
Source		Mon <u>Volu</u>	•	gal)		stanta ow R		us gpm)	,						
W-1302-2	2			0			0.0)							
Total:	•			<u>0</u>			0.0	<u>)</u>							
5. Discharge Inf	orma	ation:	:												
Discharge	Loc	ation	<u>l</u>							ceivii ter S	_	<u>n</u>	Ž	Volu	<u>ne</u>
CRD-1	injec	ction								V-13(<u>02-1</u>			-	_0
6. Comments: The treatn the regula											ding	redu	ıctio	n. D(OE and
7. I certify that t	he in	form	ation	ı in t	his r	epor	t, to	the b	est o	f my	kno	wlec	lge, i	s tru	e and correc
Operator Signati	ure:/_	[// <u>[</u>		1	L				and the state of t	, , , , , , , , , , , , , , , , , , ,	Dat	e: 0 7	<u>'-03-</u>	<u> 2008</u>	1

Self-Monitoring Report LLNL GAC Treatment Unit 09 (GTU09) AREA TF5475-2

1. Repo	orting Per	iod:	Busi	ness	Mor	nth	_Ap	<u>oril</u>	Yea	ır <u>20</u> 0	<u>08</u>						
2. Date	2. Dates (in bold and <u>underline</u>) treated ground water was discharged																
AŢ	pril	01 16	02 17	03 18	04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
To	tal month	ly tir	ne fa	acilit	у ор	erate	d (ho	ours)	:	<u>0</u>							
3. Mon	thly Com	pliar	ice D)ata:													
Inf Eff	te complia luent pH: luent pH: luent Ten				_	form	ned (1	m/d/	y): <u>N</u>	ot M	<u>Ieası</u>	<u>ired</u>					
4. Well	lfield Data	ı:															
S	Source		Mon Volu	•	gal)			aneoi ate(g									
	W-1108 W-1415				0			0.0 0.0									
Т	Total:	-			<u>0</u>			0.0	<u>)</u>								
	harge Info Discharge										eivin ter S	_	n	`	Volur	me	
_	Arroyo]							·			FC-l		_	-			
	ments: The treatm he regulat										3 fun	ding	redu	ıctio	n. D0	OE an	ıd
7. I cert	tify that th	ne in	form	ation	ı in t	his r	epor	t, to 1	the b	est o	f my	kno	wled	lge, i	s tru	e and	correct
Operato	or Signatu	re:	Val	W		<u>U</u>			A STATE OF THE STA			Date	e: 0 5	-01-	<u> 2008</u>		

Self-Monitoring Report LLNL GAC Treatment Unit 09 (GTU09) AREA TF5475-2

1. Reporting Per	riod:	Busi	ness	Moı	nth	<u>M</u>	<u>ay</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates (in bol	d an	d <u>un</u>	derli	ine)	trea	ted g	grour	nd wa	ater v	vas d	lisch	arge	d			
May	01 16	02 17	03 18	04 19	05 20	06 21	07 22	08 23	09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total month	ıly ti	me fa	acilit	у ор	erate	ed (he	ours)): _	<u>0</u>							
3. Monthly Com	plia	nce I	Oata:													
Date compliant pHis Effluent pHis Effluent Ten	: :				form	ned (m/d/	y): <u>N</u>	lot M	<u>1eas</u>	ured					
4. Wellfield Dat	a:															
Source		Mon <u>Volu</u>	•	gal)		stant ow R		us gpm)	<u>!</u>							
W-1108 W-1415				0			0.0									
Total:				0			0.0	0								
5. Discharge Inf <u>Discharge</u>										ceivii ter S	_	<u>n</u>	<u>.</u>	Volu	<u>me</u>	
Arroyo	Las	<u>Posi</u>	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>			_0	
6. Comments: The treatn the regula											ding	redi	ıctio	n. D	OE an	ıd
7. I certify that t	he in	form	atlo1	n in t	his r	epor	t, to	the b	est o	of my	kno	wlec	lge, i	s tru	e and	correct
Operator Signati	ıre:	<u>Vll</u>	UX		<u> </u>	L	~				Dat	e: <u>06</u>	<u> 5-04-</u>	2008	<u> </u>	

Self-Monitoring Report LLNL GAC Treatment Unit 09 (GTU09) AREA TF5475-2

1. Reporting Per	riod:	Busi	ness	Mor	nth	_Ju	<u>ne</u>	Year	r <u>200</u>	<u>8</u>						
2. Dates (in bold and <u>underline</u>) treated ground water was discharged																
May June	31 01 16	02 17		04 19	05 20	06 21			09 24	10 25	11 26	12 27	13 28	14 29	15 30	
Total monthly time facility operated (hours): _0																
3. Monthly Com	plia	nce I	Data:													
Date compli Influent pH: Effluent pH: Effluent Ter	:		-		form	ned (1	m/d/	y): <u>N</u>	ot N	<u>Ieası</u>	ured	:				
4. Wellfield Data	a:															
Source		Mon <u>Volu</u>	•	gal)		stanta ow R		us gpm)								
W-1108 W-1415				0			0.0 0.0									
Total:	•			<u>0</u>			0.0	<u>)</u>								
5. Discharge Info	orma	ition:							_							
Discharge	Loc	ation	1							eivii ter S	_	<u>n</u>	Z	/olu	<u>me</u>	
Arroyo	Las	Posi	<u>tas</u>						<u>T</u>	FC-	R003	<u>3</u>			_0	
6. Comments: The treatm			-							8 fun	ding	; redu	ıctio	n. D	OE and	1
7. I certify that the	ne in	form	ation	n in t	his r	epor	t, to	the b	est o	f my	kno	wled	lge, i	s tru	e and c	correct.
Operator Signatu	ıre:	M	M			U C	9	SELECTION SELECT	Martin en volument de la companya de	Medigence , is	Dat	e: 0 7	7-03-	<u> 2008</u>	3	

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 2 (CRD2) AREA TF5475-3

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

CRD-2 injection	W-1610	0
Discharge Location	Water Station	Volume

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 06-04-2008

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 2 (CRD2) AREA TF5475-3

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 31 June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly <u>Volume(gal)</u>	Instantaneous Flow Rate(gpm)
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	0	0.0

5. Discharge Information:

	Receiving	
Discharge Location	Water Station	Volume
CRD-2 injection	<u>W-1610</u>	_0

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: <u>07-03-2008</u>

Self-Monitoring Report LLNL Catalytic Reductive Dehalogenation 2 (CRD2) AREA TF5475-3

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	0	0.0

5. Discharge Information:

CRD-2 injection	A Comment	W-1610	0
Discharge Location		Water Station	Volume
		Receiving	

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 08 (VES08) AREA VTF406-HS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

3. Wellfield Data:

	Monthly <u>Volume(cu.ft)</u>	Instantaneous Flow Rate(scfm)	P(in. Hg)		Hours of Op.
W-217 W-514-2007A W-514-2007B	, , , , , , , , , , , , , , , , , , , ,	21.1 5.2 13.7	-4.08 -4.67 -4.53	63 63 63	721 721 721
Total:	1,371,275	40.1			

4. Comments:

5. I certify that the information in this proof, to the best of my knowledge, is true and correct.

Operator Signature: Lingsmin Date: 05-06-2008

Self-Monitoring Report LLNL Vapor Extraction System 08 (VES08) AREA VTF406-HS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15</u> <u>16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</u>

3. Wellfield Data:

	Monthly	Instantaneous			Hours	
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	$\underline{T(^{o}F)}$	of Op.	
W-217 W-514-2007A W-514-2007B	,	21.1 4.0 13.7	-4 -4.53 -4.42	63 63	726 726 726	
Total:	937,469	38.8				

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility will be shut down until issues with the flow totals are corrected".

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 06-25-2008

Self-Monitoring Report LLNL Vapor Extraction System 08 (VES08) AREA VTF406-HS

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)		Hours of Op.
W-217 W-514-2007A W-514-2007B	,	21.1 4.5 13.7	-4.54 -4.44 -4.02	75 75 75	653 653 653
Total:	813,031	39.3			

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved".

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Luysmin - Thus

Date: 07-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 14 (VES14) AREA VTF511

1. Reporting Period: Business Month April Year 2008

2. Dates (in $\ bold$ and $\ \underline{underline}$) treatment facility operated

April <u>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 </u>

3. Wellfield Data:

	Monthly In	stantaneous			Hours
Source	Volume(cu. ft) F	low Rate(scfm)	P(in. Hg)	<u>T(°F)</u>	of Op.
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	415,478	9.7	-23.42	48	706
W-1517	0	0.0	0	0	0
W-2208B	441,284	10.0	-23.42	48	706
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	856,762	<u>19.6</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: buysmin Date: 05-06-2008

Self-Monitoring Report LLNL Vapor Extraction System 14 (VES14) AREA VTF511

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly 1	Instantaneous			Hours
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>T(°F)</u>	of Op.
W-274	0	0.0	0	0	0
W-274 W-2208A	0	0.0	0	0	0
	0		_	Ū	-
W-2207A	U	0.0	0	0	0
W-2207B	150,993	9.4	-4	64	256
W-1517	0	0.0	0	0	0
W-2208B	161,800	11.0	-6.5	64	256
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	312,793	20.4			The second secon

4. Comments:

Facility was down from May 9th to May 27th for blower maintenance. The facility was restarted on May 27th. BAAQMD compliance samples were taken on May 27th.

5. I certify that the in	formation in th	is report,	to the best of r	ny knowledge, is true an	d correct
Operator Signature: _	Shit	Cawag	us L.	Date: 06-02-2008	
1 6 -			1		

Self-Monitoring Report LLNL Vapor Extraction System 14 (VES14) AREA VTF511

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May June $\frac{31}{16}$ $\frac{02}{17}$ $\frac{03}{18}$ $\frac{04}{19}$ $\frac{05}{20}$ $\frac{06}{21}$ $\frac{07}{22}$ $\frac{08}{23}$ $\frac{09}{24}$ $\frac{10}{25}$ $\frac{11}{26}$ $\frac{12}{27}$ $\frac{13}{28}$ $\frac{14}{29}$ $\frac{15}{30}$

3. Wellfield Data:

	Monthly I	nstantaneous			Hours
Source	Volume(cu. ft) I	Flow Rate(scfm)	P(in. Hg)	$\underline{T({}^{o}F)}$	of Op.
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	444,934	9.8	-22.71	70	731
W-1517	0	0.0	0	0	0
W-2208B	472,526	10.0	-22.71	70	731
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	917,460	19.8	***************************************		

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: 121/4min 7 MWW Date: 07-01-2008

Self-Monitoring Report LLNL Treatment Facility 518-HDTANK (TF518-HDTANK) AREA TF518-PZ

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	• 0	0.0
SVB-518-201	0	0.0
Total:	0	0.0

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	TFC-R003	0

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 05-01-2008

Self-Monitoring Report LLNL Treatment Facility 518-HDTANK (TF518-HDTANK) AREA TF518-PZ

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): _0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

	Monthly	Instantaneous
Source	Volume(gal)	Flow Rate(gpm)
XX 1/1F	0	0.0
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	. 0	0.0
Total:	<u>0</u>	$\underline{0.0}$

5. Discharge Information:

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Vapor Extraction System 19 (VES19) AREA VTF518-PZ

- 1. Reporting Period: Business Month April Week: 1 Year 2008
- 2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Weekly	Instantaneous		H	Iours
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	of Op.
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	. 0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
Total:	<u>0</u>	0.0			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

___ Date: **05-01-2008**

Self-Monitoring Report LLNL Vapor Extraction System 19 (VES19) AREA VTF518-PZ

1. Reporting Period: Business Month May Week: 1 Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Weekly	Instantaneous		H	Iours
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u> (°F)</u> o	f Op.
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	. 0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
Total:	<u>0</u>	0.0			-

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true	e and correct
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Operator Signature: Date: 06-04-2008

Self-Monitoring Report LLNL Vapor Extraction System 19 (VES19) AREA VTF518-PZ

1. Reporting Period: Business Month <u>June Week: 1</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

	Weekly	Instantaneous	Hours			
<u>Source</u>	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>Γ(°F)</u> ο	<u>f Op.</u>	
W-1615	0	0.0	0	0	0	
W-518-1913	0	0.0	0	0	0	
W-518-1914	0	0.0	0	0	0	
W-518-1915	0	0.0	0	0	0	
SVB-518-204	0	0.0	0	0	0	
SVB-518-201	0	0.0	0	0	0	
Total:	<u>0</u>	<u>0.0</u>				

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: <u>07-03-2008</u>

Self-Monitoring Report LLNL Vapor Extraction System 01 (VES01) AREA VTF5475

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

April 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		Hours			
Source	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	<u>T(°F)</u> c	of Op.		
W-ETS-507	0	0.0	0	0	0		
W-1605	0	0.0	0	0	0		
W-1608	0	0.0	0	0	0		
W-2303	0	0.0	0	0	0		
W-2212	0	0.0	0	0	0		
W-2211	0	0.0	0	0	0		
W-2302	0	0.0	0	0	0		
SVI-ETS-504	0	0.0	0	0	0		
Total:	0	0.0					

4. Discharge Information:

Discharge Location Receiving
Water Station Volume

VTF5475 Vapor Injection Well SVI-ETS-505 0

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: ______ Date: 05-01-2008

Self-Monitoring Report LLNL Vapor Extraction System 01 (VES01) AREA VTF5475

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		F	Hours
<u>Source</u>	Volume(cu. ft)	Flow Rate(scfm)	P(in. Hg)	$T(^{o}F)$ o	of Op.
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
Total:	0	0.0		*****	

4. Discharge Information:

Discharge Location	Water Station	Volume	
VTF5475 Vapor Injection Well	SVI-ETS-505	0	

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: 05-30-2008

Self-Monitoring Report LLNL Vapor Extraction System 01 (VES01) AREA VTF5475

1. Reporting Period: Business Month <u>June</u> Year <u>2008</u>

2. Dates (in **bold** and <u>underline</u>) treatment facility operated

May 31 June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

	Monthly	Instantaneous		Hours	
Source	Volume(cu. ft	Flow Rate(scfm)	P(in. Hg)	<u>T(°F)</u> (of Op.
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
Total:	0	0.0	WATER THE PROPERTY OF THE PROP		

4. Discharge Information:

	Receiving	
Discharge Location	Water Station	Volume
VTF5475 Vapor Injection Well	SVI-ETS-505	0

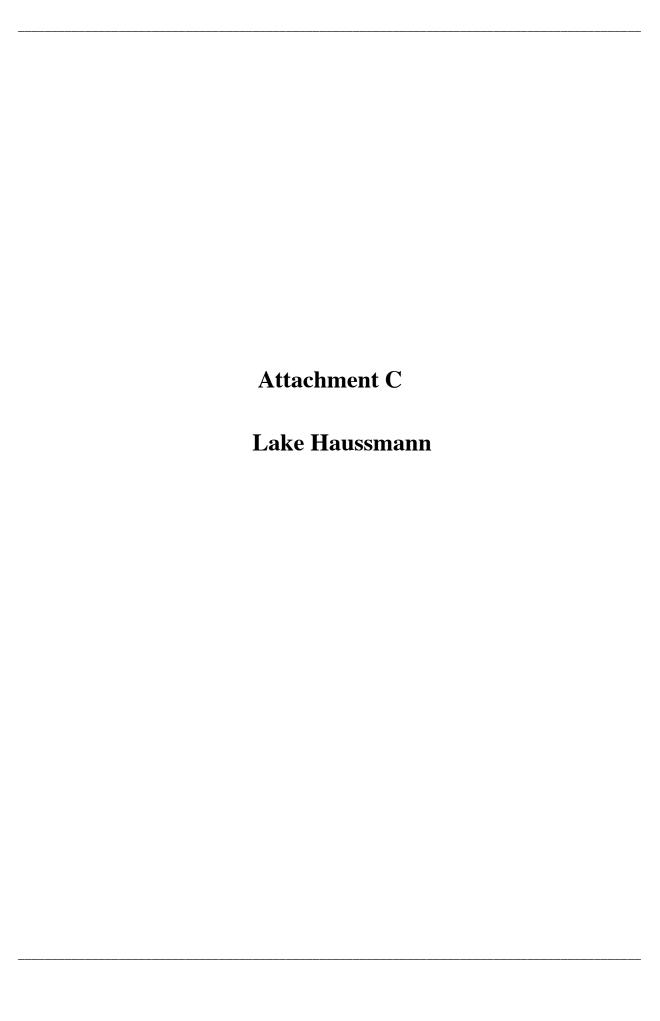
5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Date: 07-01-2008



Attachment C

Lake Haussmann Second Quarter 2008 Monitoring Program Summary

This attachment summarizes the second quarter 2008 LLNL Environmental Protection Department discharge data for Lake Haussmann. Lake Haussmann is an artificial water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June through September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). The results for samples collected at locations CDBX and WPDC are presented in Table C-1. All PCBs were below detection limits. No metals exceed discharge limits. The pH values at both locations exceeded the desired range of 6.5 to 8.5. The pH has averaged 8.8 since 1998 and is typically elevated during summer due to increased photosynthesis. Aquatic bioassay tests showed no toxicity.

Discharge from Lake Haussmann remained continuous during the second quarter. The first dry season sample was collected on June 24, 2008. The Lake Haussmann upper weir gate was maintained at the lowered position during the entire second quarter so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

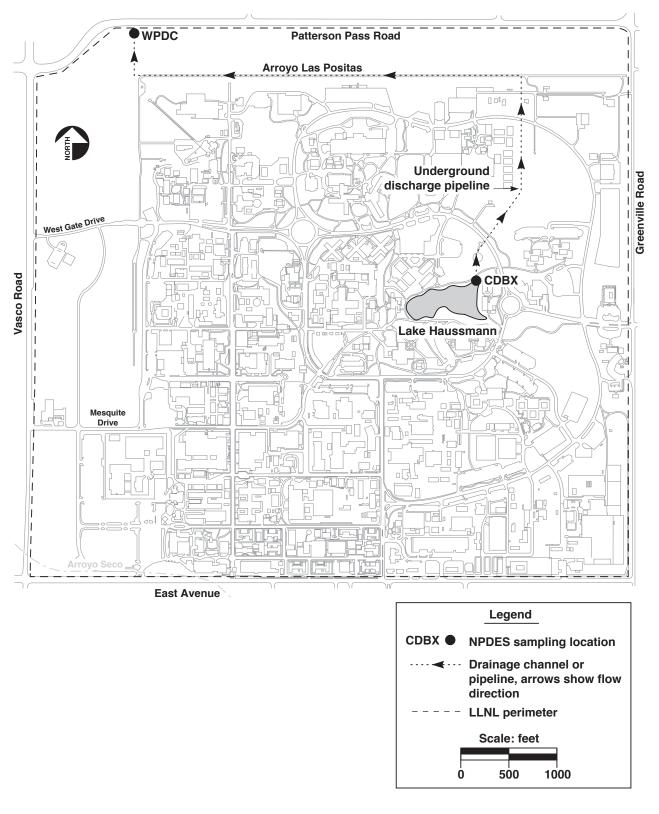
References

- U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory*, *Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).
- Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).
- Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change*, Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).

Table C-1. LLNL Lake Haussmann release monitoring data for points CDBX and WPDC, April through June 2008.

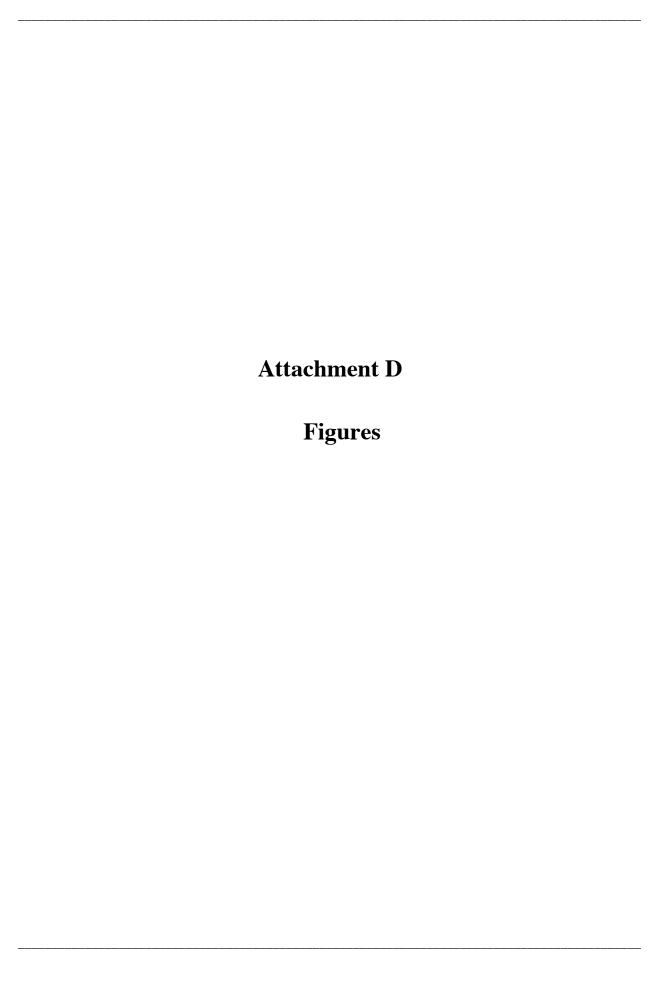
lable C-1. LLNL Lake Haussmann release monitoring data for points CDBX and WPDC, April through June 2008.						
			CDBX	WPDC	Discharge Limits 1-Apr through	1-Dec through
Dhysical	I		6/24	6/24	30-Nov	31-Mar
Physical	Linita	EDA 450.4	0.70	0.00		
pH	Units	EPA-150.1	9.79	8.66	not <6.5 or >8.5	not <6.5 or >8.5
Total suspended solids (TSS)	mg/L	EPA-160.2	<1.2	19.	na	na
Metals - Total		EDA 200 7	40.05	0.75		
Aluminum	mg/L	EPA-200.7	<0.05	0.75	na	na
Antimony	mg/L	EPA-200.8	<0.002	<0.002	0.006	na
Arsenic	mg/L	EPA-200.8	<0.002	<0.002	0.05	0.01
Barium	mg/L	EPA-200.7	0.072	0.12	na	na
Beryllium	mg/L	EPA-210.2	<0.0002	<0.0002	0.004	na
Boron	mg/L	EPA-200.7	2.	1.3	na	na
Cadmium	mg/L	EPA-200.8	<0.001	<0.001	0.005	0.0022
Chromium	mg/L	EPA-200.8	<0.003	0.011	0.05	na
Cobalt	mg/L	EPA-200.7	<0.05	<0.05	na	na
Copper	mg/L	EPA-200.8	<0.002	0.002	1.3	0.0236
Hexavalent Chromium	mg/L	EPA-218.6	0.0023	0.0083	na	0.022
Iron	mg/L	EPA-200.7	<0.05	1.	na	na
Lead	mg/L	EPA-200.8	<0.001	<0.001	0.015	0.0064
Manganese	mg/L	EPA-200.8	0.0029	0.014	0.5	0.5
Mercury	mg/L	EPA-245.1	<0.0002	<0.0002	0.002	0.002
Molybdenum	mg/L	EPA-200.8	0.0035	0.0024	0.05	na
Nickel	mg/L	EPA-200.8	<0.002	0.0028	0.1	0.32
Selenium	mg/L	EPA-200.8	<0.002	<0.002	0.05	0.01
Silver	mg/L	EPA-200.8	<0.001	<0.001	0.1	0.0082
Thallium	mg/L	EPA-200.8	<0.001	<0.001	0.002	na
Vanadium	mg/L	EPA-200.7	<0.01	<0.01	na	na
Zinc	mg/L	EPA-200.7	<0.05	<0.05	na	0.22
Polychlorinated biphenyls	J					
PCB 1016	ug/L	E8082A	<0.5	a	na	na
PCB 1221	ug/L	E8082A	<0.5	a	na	na
PCB 1232	ug/L	E8082A	<0.5	a	na	na
PCB 1242	ug/L	E8082A	<0.5	a	na	na
PCB 1248	ug/L	E8082A	<0.5	a	na	na
PCB 1254	ug/L	E8082A	<0.5	a	na	na
PCB 1260	ug/L	E8082A	<0.5	a	na	na
Toxicity	3				110	
Aq. Bioassay, Survival	Percent	Title 22	100	95	na	na

a) Sampling for these analytes not required at this location during this period.



ERD-S3R-08-0041

Figure C-1. Location of Lake Haussmann showing discharge sampling locations.



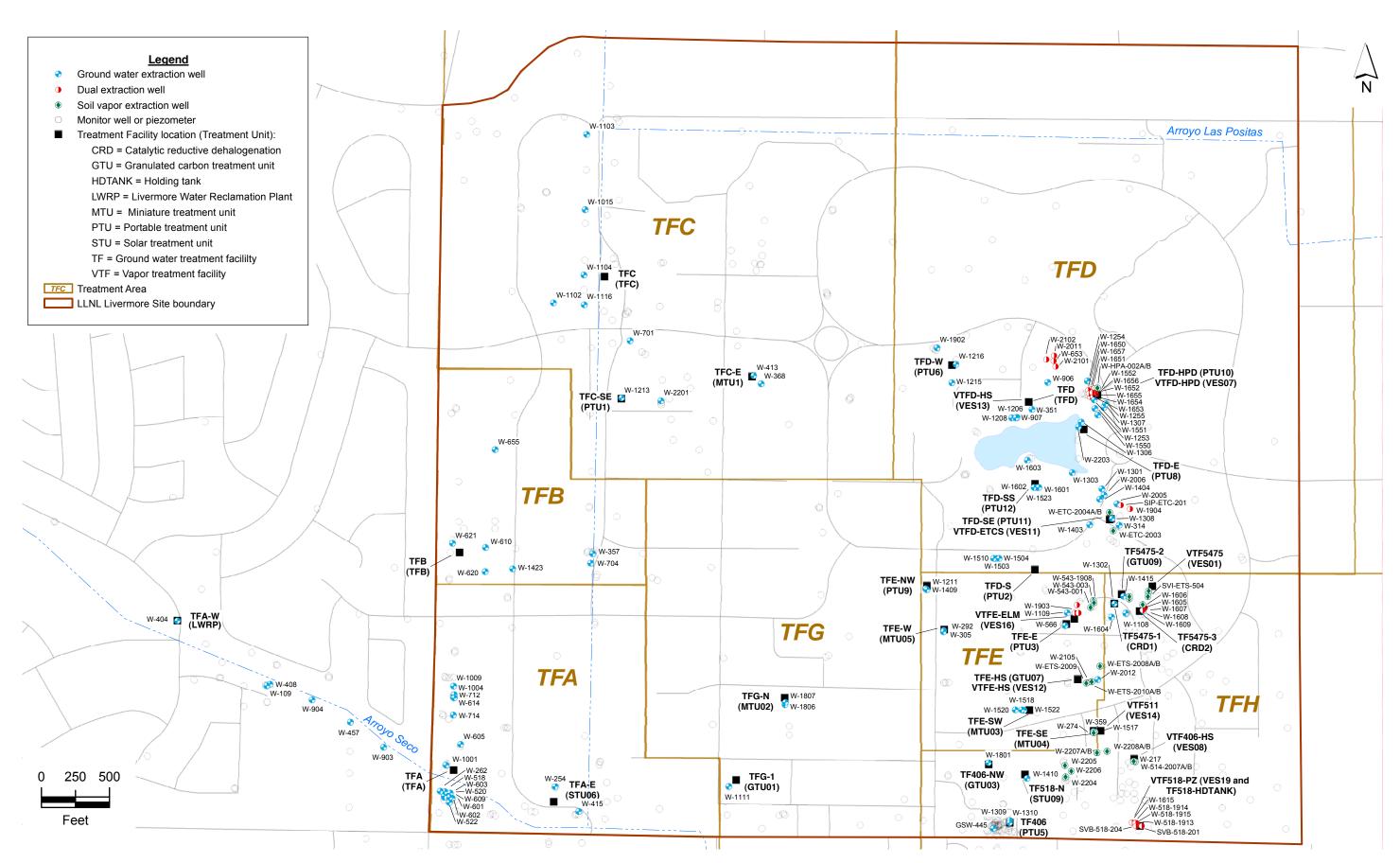


Figure 1. Livermore Site treatment areas and treatment facility locations.

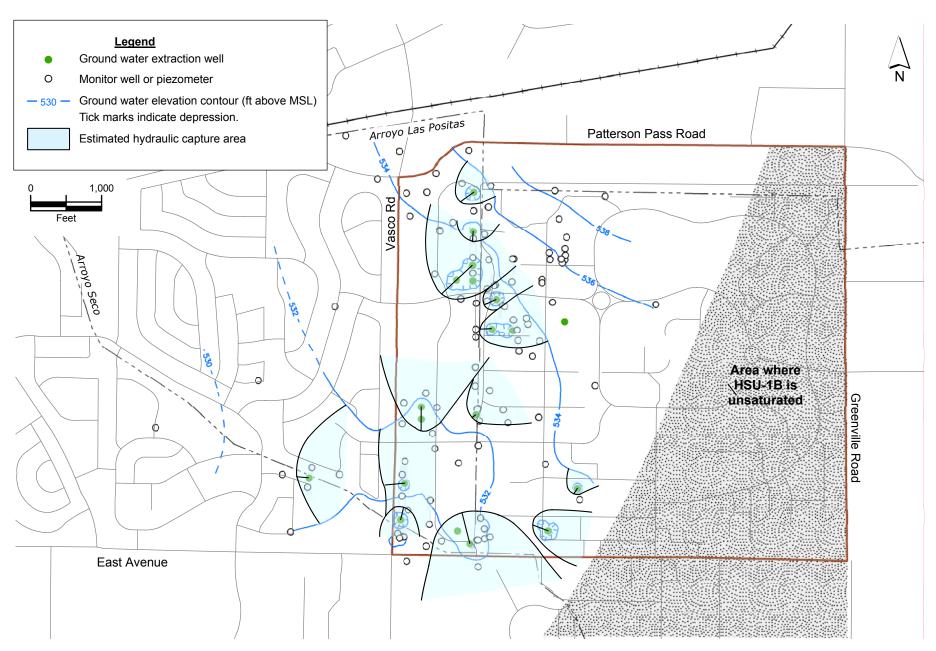


Figure 2. Ground water elevation contour map based on 121 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

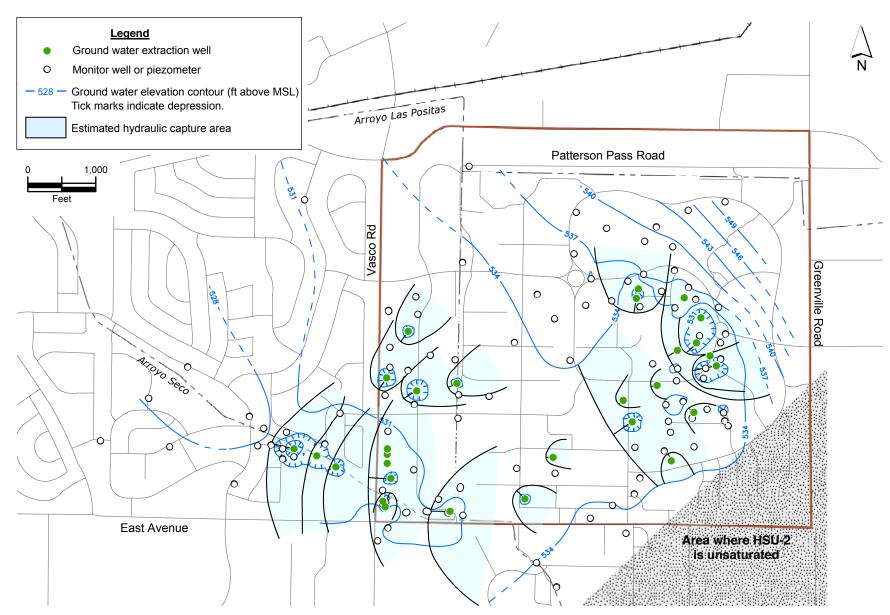


Figure 3. Ground water elevation contour map based on 137 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

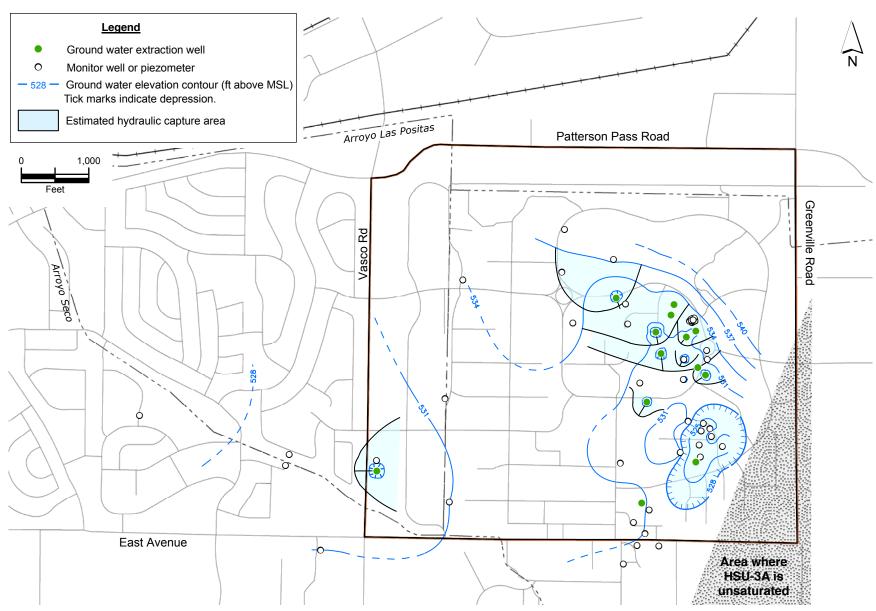


Figure 4. Ground water elevation contour map based on 58 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

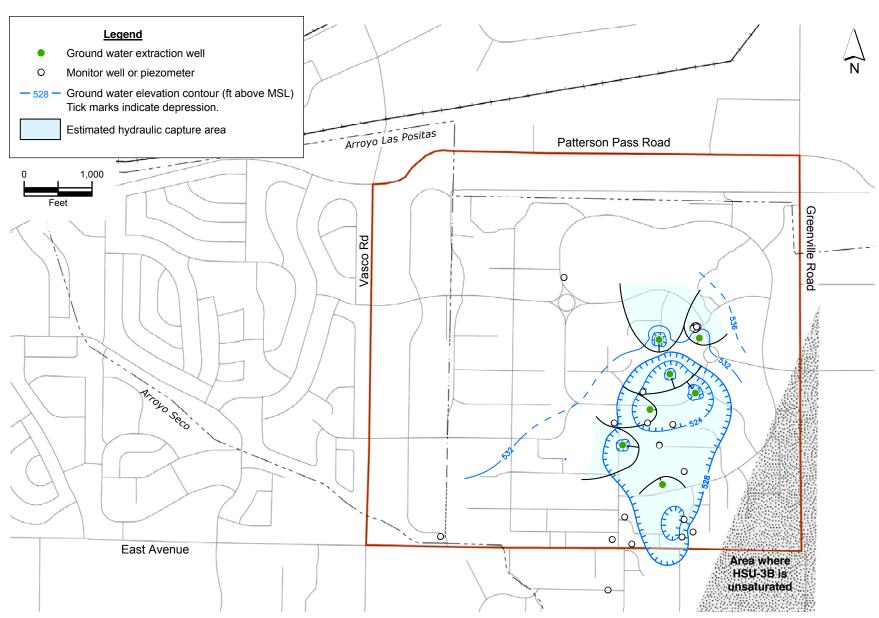


Figure 5. Ground water elevation contour map based on 29 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

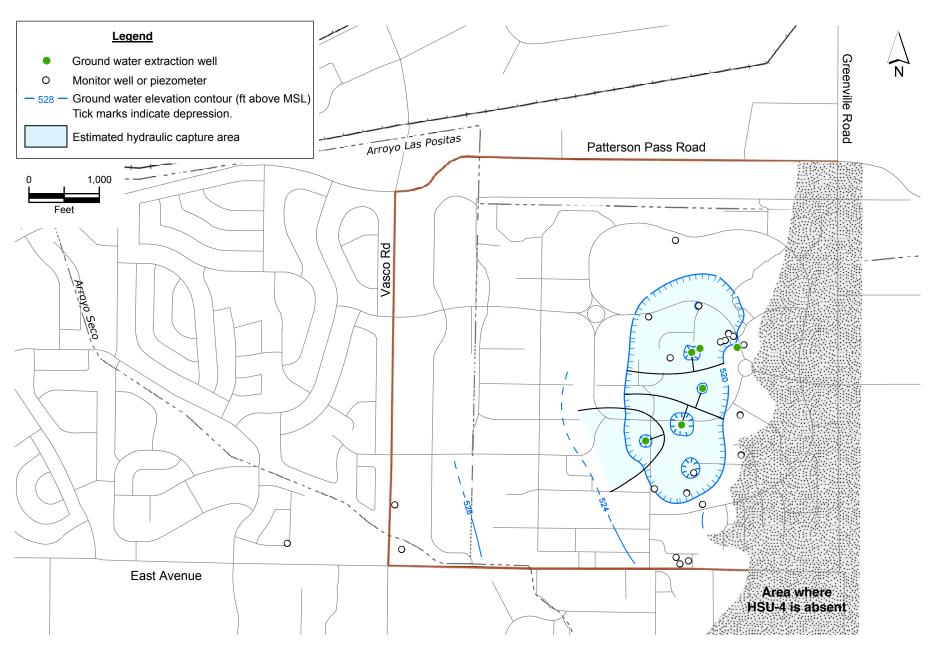


Figure 6. Ground water elevation contour map based on 27 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

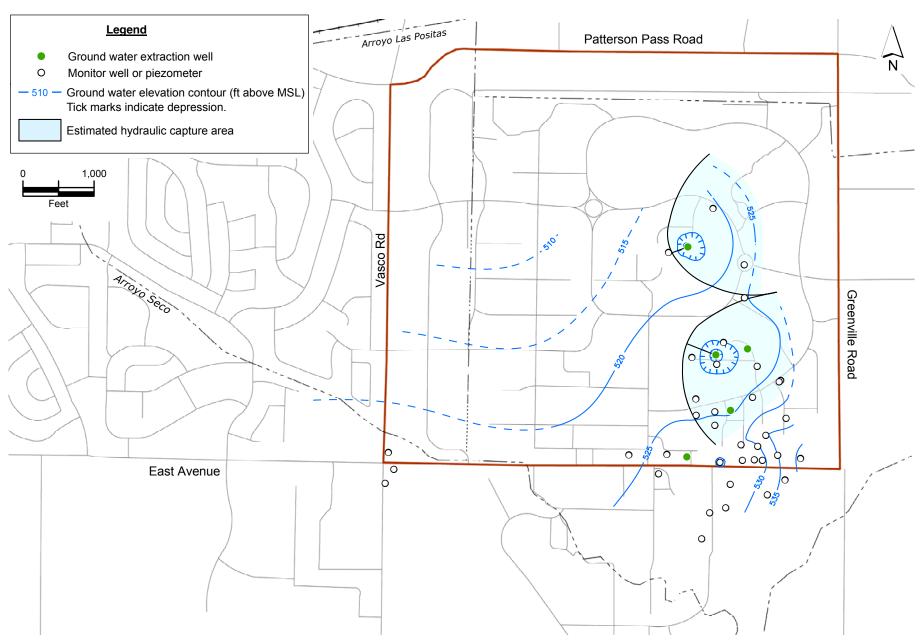


Figure 7. Ground water elevation contour map based on 36 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.